

Austria Sch. 18
Barbrein Du. B. 650
Barbrein Du. B. 650
Barbrein Du. B. 650
Barbrein Du. B. 650
Barbrein Gr. 38
Lapan Y550
Campdo C\$7 00
Larden Fic. 500
Bermark Dhr. 7 25
Egyer ££1.00
Halland Fink 5.50
Hassen Fink 5.50
Hassen Fink 5.50
Mornico Di. Barbrein Historia
Halland Fink 5.50
Mornico Di. Barbrein Historia
Horizo Di. Barbrein Historia
Historia
Historia
Historia
Historia
Lapan Y550
Sampane St. 4, 26
Sampane St. 4

# FINANCIALTIMES

EUROPE'S BUSINESS NEWSPAPER Monday April 9 1984

D 8523 B

# **NEWS SUMMARY**

GENERAL

# Shuttle repair mission setback

U.S. space shuttle mission will resume its attempt to retrieve the. \$77m Solar Max satellite after the failure of the tricky, manued space

Astronaut Dr George Nelson flew ports to Japan over the next four 200ft from the shuttle to the sately lite, but the docking pin he tried to install failed to connect properly.

Further attempts to grab onto Solar Max using the shuttle's robot arm also failed. Page 18

## Clashes In Beirut

Fresh fighting in and around Beirot dampened prospects for a disen-gagement plan approved by a mili-tary commission of Lebanese army, Christian militia, Druze and Mos-lem groups. Page 2

## Soviet 'spy' warning

Soviet fighter pilots complained of spy flights by Western aircraft in the Arctic and warned that if any intruded into Soviet airspace fhey would be destroyed. Page 3

## Nine die in Chad

Nine French paratroopers were killed in an explosion near the central Chad outpost of Ours, the worst casualties France has suffered since dispatching soldiers to help Chad President Hissène Habré balt a southward advance by Libyanbacked rebels. Page 3

## Cameroon coup fails

Forces loyal to President Paul Biya of Cameroon were back in control of strategic installations in the capital, Yaounde, after an aborted coupattempt. Page 3

## **Ulster killing**

Guinea's military leaders, who seized power in a bloodless coup last Thursday, have decided to res-Conakry Radio said.

## Chinese border fight

into its territory in an escalation of fighting along the Sino-Vietnamese border. Page 2

## Liberians pardoned

Liberian leader Samuel Doe pardoned 10 of 13 people sentenced to death last week for plotting to over-

## Colonels on trial

Four Spanish army colonels face trial before a court martial tomorrow, accused of plotting a coup designed to thwart a Socialist election victory in 1982.

## Oman barracks plan ...

The U.S. plans to build reinforced aircraft shelters and barracks in Oman as part of its expansion of military ground support in the Mid-

## Meningitis scare

Danish health authorities ordered the mass vaccination of 14,000 young people against meningitis, after more than 25 youths have been affected and one has died from the disease.

## Former senator dies

Former U.S. Senator Frank Church of Idaho, a leading Liberal during more than two decaders in the Senate, died of cancer over the

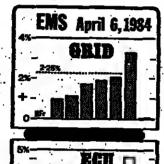
weekend, aged 59.

## BUSINESS

# Japan, US agree on trade quotas

ment on their long-running dispute over quotas on U.S. beef and citrus exports, under which the U.S. will be able almost to double its beef ex-

ITALIAN lira recovered from a poor start in the European Monetary System last week, mainly as a ref-



• 1000

lection of renewed dollar strength. This depressed the D-Mark and re-lieved downward pressure on the eaker member currencies.

Tourist demand for the lira should increase with the onset of summer. Speculation of an immi-nent EMS realignment seems to have receded. The Belgian franc; was again the weakest currency but required little support from the Rel-gian central bank. Currencies, Page 38

Ulster magistrate's daughter Mary
The chart shows the two constraints on European Monetary System exchange rates. The upper grid, based they were ambushed by guomen on tem defines the cross rates from they were ambushed by guiden on their way home from church in Belfast.

Guinea freedom move

Guinea's military leaders, who

tors full labour and press freedom, EUROPEAN Community should consolidate its internal market and try to extend the benefits to the seven states of the European Free Trade Area, said a report by the Eu-Vietnam claims that more than a ropean Research Associates. Page 4 battalion of Chinese troops crossed INEMPLOYMENT will continue to UNEMPLOYMENT will continue to rise to 14% per cent in 1988 unless the UK Government boosts growth to about 4 per cent, said Lloyds

> CHINA is to open up 14 coastal cities to overseas investment. It also plans to expand beer exports from 1986 after opening a brewery to be built with a \$30m credit facili ty from 10 international banks.

Bank's economic bulletin. Page 19

OCCIDENTAL PETROLEUM, international energy and natural re-sources group, said "great progress" had been made in plans for development of the world's biggest open cast coal mine in China, Page 4

TURNER BROADCASTING, U.S. television and cable news group, and American Broadcasting Com-panies, could emerge as rivals for control of ESPN entertainment and sports network. Page 20

NEW ZEALAND trade unions will launch snap strikes over the next two weeks against companies which reported record or large profits last year.

UK INDUSTRY: Profitability of new company investment will be significantly reduced in the long run by the UK budget's tax changes, said an analysis by UK broker W. Greenwell. Page 10

SECURITY PACIFIC, 10th largest U.S. hank, plans to take an initial 5 per cent stake in the London stockjohbers Charles Pulley & Co to complement its 29.9 per cent stake in 20 per cent for large deals carried UK stockbroker Hoare Govett out by institutional investors in me-

# France pushes for united European voice within Nato

BY JOHN WYLES IN BRUSSELS

Plans are now well advanced for a meeting of foreign ministers of the seven-nation Western European Union (WEU) on May 23, which might lead to the development of a "European pillar" within the Nato alliance.

ing efforts to revive the WEU. Growing support for closer co-operation on security matters in

Western Europe has been shown at preparatory meetings of officials. Those meetings followed a statement of sims in a French memorandum circulated towards the end of

That has also been a principal West German concern, but diplo-mats now say that Bonn's support for the French initiative has been

crucially important in bringing it to

Of the other WEU members, Italy and Luxembourg are said to be cautiously in favour of exploring the idea, while Britain and the Nether-

That is the basic objective of the for security discussions might have French Government, which is leading efforts to revive the WEU.

for security discussions might have serious implications for the European Community's attempt to develope. op closer political co-operation.
It is no coincidence that the three

countries most opposed to security discussions within the EEC are the three member states that do not belong to the WEU: Ireland, Denmark and Greece.

February. Speaking at a conference in Belgium followed the French Knokke, Belgium, on EEC-U.S. rela-with a supporting memorandum tions at the weekend, M Claude with a supporting memorandum tions at the weekend, M Claude that emphasised the importance of Cheysson, France's Foreign Minisensuring that no development of ter, emphasised that although Euthe WEU should weaken the Atlanrope needed the U.S. for its defence, it could not be expected to share all American attitudes towards Eastern Europe.
M Leo Tindemans, the Belgian

Foreign Minister, promised to work to ensure that a WEU revival would not lead to any decoupling from the U.S. or from the EEC.

The WEU exercise cannot be a substitute for a development to be carried out by the Ten, nor can it be conceived or undertaken ontside Nato," he said.

pean pillar is derived from the regional military superiority of the Soviet Union, M Tindemans added.

A revived WEU would have the added advantage for France of compensating for its absence from Nato's military structure. That ex-cludes it from the Euro-group. which tries to co-ordinate the policies and views of the European

French and Belgian ambitions for the WEU also cover closer co-operation between defence industries in Europe. That is regarded as essential if the "two-way street" in arms purchases between Europe and the U.S. is to become a reality.

There is, however, no feeling in France that Western Europe could or should seek to take over from the U.S. responsibility for its conven-tional defence. "We cannot afford the financial and human effort required," a French official said. Europe's defence must continue

Continued on Page 18

# U.S. interest rate rises cause mounting concern

BY MAX WILKINSON IN LONDON AND OUR FOREIGN STAFF

will this week put sharply increased fire.

pressure on the U.S. administration to curt its budget deficits to preyent a further rise in U.S. interest weas said that U.S. interest rates

Apart from the

Fund's Interim committee meeting in Washington on Thursday, the other industrialised powers will tell other industrialised powers will tell of the world economy: A continued and informal sessions next week in Washington will be:

The world economy: A continued and informal sessions next week in Washington will be:

The world economy: A continued and informal sessions next week in Washington will be: debtor nations.

This renewed concern about the U.S. budget deficit and rising interest rates follows several weeks of upward pressure on rates in the U.S. credit markets, culminating on Friday with the announcement from the Federal Reserve Board that from today it would increase the U.S. discount rate from 8% per cent to-9 per cent.

This will be the first change in the discount rate since December 1982. The U.S. prime rate has already risen by 1 percentage point to 12 per cent within the last month.

Over the weekend, Sr Ernane ing what response they should Galveas, the Brazilian Finance make if Argentina's current talks

THE WORLD'S financial leaders ministration was "playing with cial to the debt rescheduling packwill this week not sharply increased fire."

At the International Monetary entire oil crisis." Brazilian authorities estimate

the U.S. of their fears that further months if the recent 1 per cent U.S. emphasis on tight financial policies rises in interest rates could precipiprime rate rise is maintained and control of inflation is likely to tate a new crisis for the world's through 1984. More than 70 per cent of Brazil's \$93hn foreign debt is linked to floating interest rates.

istration's fiscal policies marks a countries will be hoping for final distinct change of approach by Brazil, which has sought throughout its 18-month long debt crisis to avoid giving offence to the U.S. First reactions earlier in the week to the two mum the U.S. would agree to. stage jump in the U.S. prime rate had been muted.

• Special Drawing Rights: The de-

At the IMF conference, anxieties about the world's debt problems are likely to dominate most of the informal talks between ministers and central banks. In particular, they will be discuss-

Minister strongly attacked the re-cent rise in the U.S. interest rates, programme should run into serious and warned that the Reagan Ad-difficulties. This programme is cru-

to avoid a default on its interest

Apart from the debt issues, the main questions to be discussed at the formal and informal sessions

The attack on the Reagan Admin- Aid to the Third World: Most

agreement on the next three-year replenishment of the International Development Agency's fund for soft loans to provide S9bn, the maxi-

veloping countries will renew their call for a substantial addition to the SDR 17.5bn (\$18.6bn) which the Fund's members hold as currency reserves. However, the industrial nations are generally sceptical about whether a further issue of SDRs by the Fund is warranted

Argentina urged to be realistic, Page 19; Focus shifts to money supply, Page 20

# London eases commission rules

BY JOHN MOORE, CITY CORRESPONDENT, IN LONDON

THE London Stock Exchange today brings into operation its initial plans for dismantling its fixed cales for commissions charged by British securities firms. It is the stock exchange's first step in s plan that will lead to the abandonment

In today's moves, stock exchange firms are to be allowed to negotiate commission rates on buying and selling overseas securities. As part of that change, the London ex-change is allowing its firms to form international dealing subsidiaries to enable them to compete with big securities firms from outside the

> A big cut in certain rates of commission charged on dealings in will be dealing in the international British government securities - gilt-market largely over the telephone edged stock - also takes effect today. The cuts might be more than dium and long-dated gilts.

The relaxation of the London ex- ket makers - who have indicated change's commission rules was prompted by an agreement with Britain's Department of Trade and Industry last summer that all commissions should be negotiable by December 1986. The stock exchange of fixed charges on securities trad-ing within the next 18 months. council has said that commission scales will be dismantled "simultaneously at a date not earlier than autumn 1985.°

The international dealing companies allowed under the new rules will be incorporated with limited liability, be recognised members of the London exchange, but will be al-lowed to operate only in the role of a principal rather than as an agent. The stock exchange council has

ruled that, since those companies market largely over the telephone and mainly with professional investors, they will not be permitted to have a presence on the floor of the exchange.

London Stock Exchange light for foreign business, Page 16; Lex; U.S. bank buys stockjobber,

Among the stockjobbers - or mar-

that they are forming an international dealership are Akroyd & Smithers, Smith Bros, and Bisgood, Bishop. Stockbroking firms that have indicated that they are forming international dealerships are Grieveson Grant; Cazenove; Rowe & Pitman; Kitcat & Aitken; Hoare, Govett; Williams de Broe Hill Chaplin. Through the establishment of an international dealership, stockbrokers will be able to act as a principal or market maker for the first time in London.

The move is already seen as a prelude to the acceptance by the London exchange that the separate functions of stockjobbing and stockbroking may have to merge in the future if the British securities market is to be able to compete with overseas securities firms.

Page 18

# London Stock Exchange: the Editorial comment: Ireland:

International 2,3	Ettopenus
INTELLISIONAL	Financial futures
Companies 20	Int. Capital Markets
Companies	Letters
World Trade4	Letters
7_12	Lex
Britain	Management
Companies 24	Marin Company
Companies	Men and Matters
	Money Markets
Appointments	Stock markets - Bourses
Appointments 15 Arts - Reviews 15	SOUCH MATERIAL - Doluges
	- Wall St 30-
	_ London 36.
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Construction	- London 35, Technology
0.000,000	Olic Armen
Currencies	Alcument
Rditorial continent	
Married and	

CONTENTS

battle ...... 17 China: building up a Cleveland, Ohio Argentina: realism a factor Industrial coil coating 

fight for foreign business. 16 patenting .................... 16 Volvo: a Swedish power Lex: revolving doors in Lombard Street ......... 18 presence inside Vietnam .. 2 Survey ...... 25-28

# Nigerian accord on trade arrears

By Quentin Peel in London

NIGERIA HAS reached broad agreement with representatives of leading supplier companies on the terms and structure of rescheduling some S3bn in arrears of uninsured trade payments, following exhaustive talks in London at the week

The key to the deal is an agree-ment by the Nigerian Government to reconsider the question of paying some post-maturity interest owed on the arrears, some of which have been due for as long as two years.

In return, the leading creditors are expected to accept the Nigerian proposal to pay off its short-term trace debts with six-year promissory notes, provided some further amendments are made to the struc-

Further talks will take place this week - involving financial and legal advisers to both Nigeria and the creditors - to finalise the details of the Nigerian letter of offer. The document, originally scheduled for publication last Wednesday, will probably be delayed another week. Alhaji Abubakar Alhaji, the Ni-

gerian Permanent Secretary for Fi-nance who has been leading the negotiations, expressed confidence in the outcome yesterday before leav-

ing for Lagos. I think we bave got the agreement," he said. The talks began on Friday be-tween a small group of British and Japanese creditors, and the Nigerian officials. Throughout Saturday, representatives of Unilever, the British group owed the largest individual amount, and Morgan Gren-fell, the London merchant bank advising a group of more than 300 cre-ditors, continued talks with the Ni-gerians and their financial advisers, merchant bankers S. G. Warburg. The creditors have been seeking

amendments to both the pricing and structure of the Nigerian deal. On prices they wanted some payment of post-maturity interest on the arreers, and on improvemen on the 1 per cent interest rate over Libor offered on the promissory notes. On the question of structure, they

want stronger guarantees that the rescheduled payments would rank emphasis on tight financial policies | with all other medium-term Nigeri-and control of inflation is likely to | an debt, including cross-default be agreed by the major countries. clauses to other loans, and providespite generally improving world sion made for a "note-holders" clauses to other loans, and proviagent" or trustee to represent the creditors interests. The agreement on post maturity

interest does not commit the Nigerian Government to payment, but means that it will consider each case on its merits. No agreement was reached on the interest carried ny the notes.

# German unions to take strike decision today

BY RUPERT CORNWELL IN BONN

and print unions will decide today whether to push the country over the brink into its worst labour disruption for years, in support of their campaign for a 35-hour workthusiasm of a fair proportion of its membership for all out strike acing week.

After the collapse on Friday of last ditch negotiations between em-ployers and the 2.5m-strong IG Metall engineering union, pessimism grew over the weekend that a serious wave of strikes could no longer

The first serious shots have al-ready been fired by IG Druck, the printing and paper industry union. Stoppages by its members caused Suddeutsche Zeitung of Munich, one of the largest German newspapers, to lose its entire local edition on Saturday. Some regional editions of the mass circulation Bild

Zeitung, were also affected. At a meeting in Stuttgart, leaders of IG Druck are expected to choose between either a national strike ballot for the industry, or increased action against preselected individu-

But the real pointer is likely to come from a special session, also towhose size, as well as its strategic

WEST GERMANY'S engineering industry, gives its attitude a deci-The union is torn between its own need not to lose face in a climbdown, and the evident lack of en-

London fights to wr

investors. Page 16

back foreign

Yesterday, however, IG Metall received welcome new backing from the DGB, the central union federation, for its battle to secure a fivehour cut in the working week.

Frau Ilse Brusis, a member of the DGB executive, declared that both the engineering and printing work-ers could rely "on the solidarity of every union." The federation also again attacked the centre-right coalition government in Boon for siding unequivocally with the employers in the dispute.

This backing has in turn only stiffened the support of the opposition Social Democrats (SPD) for the unions' demand. Herr Willy Brandt, the SPD chairman, told a weekend rally that mass unemployment (now standing at 2.4m in West Germany) "was just a chaotic way of shortening working hours."

But the Government's real worry day, of the executive of IG Metall, now is that a serious outhreak of strikes, as opposed to the modest position in key sectors of German Continued on Page 18

# French expect rise in industrial investment

year.

The investment predictions, showing rises particularly in the agreement rofood and intermediate goods sections in current frances, compares in current frances, compares for the compares of the current frances. tors, came as M Laurent Fabius, In-dustry Minister, prepared for a cent in real terms) indicated by the dustry Minister, prepared for a peace-making visit to the troubled Lorraine steel regioo tomorrow and steel unions drew up battle plans for a mass march on Paris on Fri-

The forecasts, made in a survey tute, represent a sharp upward revision of the projections delivered dropped around 5 per cent in real during the previous survey in No-

THE FRENCH Government, which although the survey does not faces a crucial week weathering the cover other important sectors such storm over its planned run-down of as services, agriculture and energy. the steel sector, could draw some the optimistic responses point to a comfort from forecasts indicating better than expected impact of many an 11 per cent volume rise in overall in the investment climate despite domestic industrial investment this the recession still hitting key indus-

November survey.

Insee, showing the depth of investment cuts over the past three years, commented that even if the survey's projections were realised, business spending would still only last month of business opinion by business spending would still only insee, the official statistics insti-Last year, industrial investment

Continued on Page 18

# MAYFAIR W1 **GROSVENOR** STREET

A SUPERIOR **HEADQUARTERS** 

**OFFICE** BUILDING

WITH PRIVATE CAR PARKING

27,000 sq. ft. TO BE LET



# May & Rowden

77 Grosvenor Street, London W1A 2BT **Telephone: 01-629 7666** 

also City of London Edinburgh and Overseas

# City of Oslo (Norway) 9% Sinking Fund External Loan Bonds due May 1, 1985

NOTICE IS HEREBY GIVEN, pursuant to Fiscal Agency Agreement dated as of May 1, 1970 under which the above described Bonds were issued, that Ciribank, N.A., Fiscal Agent, has selected by lot for redemption on May 1, 1984 through the operation of the Sinking Fund, \$1,855,000 principal amount of said Bonds at the Sinking Fund redemption price of 100% of \$1,855,000 principal amount of said Bonds at the Sinking Fund redemption price of 100% of the minimal amount the second treather with account interest to the date fixed for redemption. the principal amount thereof, together with accrued interest to the date fixed for redemption.

The serial numbers of the Bonds selected by lot for redemption are as follows:

| 1.657\_100 | Principal amount berefore and Exchange Fund redemption price of 1007, of the principal amount berefore gentle with a consumer of the principal amount berefore gentle with a consumer of the principal amount berefore gentle with a consumer of the principal amount berefore gentle with a consumer of the principal amount berefore gentle with a consumer of the principal amount berefore gentle with a consumer of the principal amount berefore gentle with a consumer of the principal amount berefore gentle with a consumer of the principal amount of BOND NUMBERS

1919 3116 4947 7164 8165 10053 11233 12238 13163 14431 15357 16252 16963 17495 17892 1928 3119 4964 7180 9169 10058 11236 12244 13165 14438 15360 16255 16966 17497 17883 On May 1, 1984 there will become due and payable upon each Bond selected for redemption On May 1, 1984 there will become due and payable upon each Bond selected for redemption the said redemption price, together with interest accrued to the date fixed for redemption. Payment of the redemption price of the Bonds to be redeemed will be made in such coin or currency of the United States of America as at the time of payment is legal tender for the payment of public and private debts thereon, upon presentation and surrender of said Bonds, with all coupons appertaining thereto maturing after the date fixed for redemption, at the Corporate Trust Office of Citibank, N.A., Municipal Bond Processing Window, 20 Exchange Place, 16th Floor, New York, N.Y. 10043 and subject to applicable laws and regulations, at the main offices of Citibank, N.A. in Amsterdam, Brussels, Frankfurt (Main), London, Milan the main offices of Citibank, N.A., in Amsterdam, Brussels, Frankfurt (Main), London, Milan and Paris. Payment at the offices of Citibank, N.A. in Europe referred to above will be made by their drawn was a bank in New York Circ. check drawn upon a bank in New York City or by a transfer to a dollar account maintained by

the payee with a bank in New York City.

On and after the date fixed for redemption interest on said Bonds will cease to accrue.

Coupons due May 1, 1984 should be detached from the Bonds and presented for payment in the usual manner.

For the CITY OF OSLO (NORWAY) CITIBANK, N.A.

April 2, 1984



## Metro Machinery Co., Ltd. Bangkok, Thailand

US\$12,000,000 Term Loan Facility

Provided by

BNS International (Hong Kong) Limited Centerre Bank National Association Continental Illinois Bank and Trust Company of Chicago

First Interstate Bank First Wisconsin National Bank of Milwaukee National Bank of Canada (Pacific) Limited Norwest Asia Limited Westpac Finance Asia Limited



# **OVERSEAS NEWS**

# China increases forces inside Vietnam

BY MARK SAKER IN PEKING

VIETNAM claims that more province had hit back at a than a battalion of Chinese group of Vietnamese troops, troops have crossed into its which had crossed into Chinese territory in the escalating fighting along the Sine-Vietnamese border.

The Chinese force penetrated on Friday a kilometre into on Friday a knowlette into Victnamese territory near Friendship Pass, on the border with China's Guangxi province, the Victnamese embassy in Peking said. Chinese reinforcements had crossed the border of Setudor and ground ferhing with China's Guangxi province, the Vietnamese embassy in Peking said. Chinese reinforcements had crossed the border on Saturday and ground fighting was continuing.

\*\*Xinhua said.\*\*

"Chinese frontier guards hit their big guns, back with their big guns, destroying many Vietnamese military installations and killing and wounding a number of Vietnamese.

was continuing.

The alleged Chinese incursion into Vietnam, if true, is the first significant one since the fierce border war of 1979, in which an estimated 20,000 Chinese base desired the China has depied the Vietnamese allegation, but the latest despatch from Xinhua, the official Chinese news agency, said a detachment of Chinese frontier guards in Yunnan

Indian jute

strike ends as

port hopes rise

The jute strike, also this sector's longest in history, ended on Saturday with nearly

ended on Samrday with hearty
25,000 workers getting a
minimum pay rise of R65
(about £4.20) per month.

The strike, in the eastern
state of West Bengal, had shut
at least 55 mills for nearly
six weeks. Indian Jute Mills

ociation officials, according

to Reuter, said that the industry had lost more than R2.6bn (£167m) because of

officials of the four main dockworkers' unions leading the 23-day-old strike held extended weekend talks on Government pay demands but were reported to be reaching a consensus for the 10 major.

a consensus for the 10 major ports in question.

One top official was quoted as saying that he hoped to take an "acceptable formula" to the Government.

In Punjab, where the Sikh sect is seeking greater religious and economic autonomy, grenade and gun attacks wounded eight Hindus, at religious. meetings, keeping communal tension high during Prime Minister Indira Gandhi's absence abroad.

Three people were wounded on Sunday in a grenade attack on a Hindu religious meeting.

on a Hindu religious meeting, and five were wounded on Saturday night when gunmen

fired on another religious gathering. Harchand Singh Longowal,

a top Sikh leader, warned that

resentment against Govern-ment policies was growing in a letter to Mr Prakash Sethi,

the Home Affairs Minister, he said: "There is mounting re-

sentment among Sikhs. . . I am finding it difficult to hold

am finding it difficult to hold them in check."

The continuing troubles in Punjab prompted Mrs Gaudhi to curtail her Middle East peace mission on behalf of the 101-member non-aligned movement, which she heads.

She was scheduled to discuss the Lebanon crists, the transland war and other

cass the Lebanon Crisis, the Iran-Iraq war and other issues during a tour of Algeria, Libya, Egypt and Tunisla, but, citing "murderous sprees" in Punjab she announced she would not visit

Egypt and Algeria and would

return tamorrow.

Mrs Gandhi arrived in Tripoli on Saturday and met the Libyan leader Col Muammer Gadaffi, who said he

muammer Gadam, who said he considered the visit "a good initiative to bring in a new phase of relatious between the two countries."

**Emir of Bahrain** 

BAHRAIN—The Emir of Bahrain, Sheikh Isa Bin Sulman Al-Khalifa, who begins a four-day state visit

to Britain tomorrow, hopes that his talks with British leaders will contribuate to a settlement of the Iran-Iraq

hope that we shall be able to formulate new ideas which will contribute to the settle-

ment of the dispute between Iran mad Iraq, he said in written answers to questions

submitted by Reuters. He said Bahrain had been

affected as much as any other Gulf state by the three-and-a-half years war, which "threatens peace and security in the whole region . . .

retards economic develop-ment in the area and invites

foreign power rivalry."

The emir, who will have talks with Prime Minister Margaret Thatcher, also said:

"We expect Britain and other

West European countries to

play a greater role in trying to resolve the Middle East

FINANCIAL TIMES, USPS No 190640 published daily except Sundays and holidays, U.S. subscription rates

sees UK role in Gulf peace territory on Thursday, leaving "23 dead and wounded" within

four hours.
Vietnamese artillery had continued to bombard Chinese positions at 20 places along the border on Thursday and Friday, Xinhua said.

namese soldiers," the agency said. Both China and Vietnam have claimed intensifying artillery attacks by each other since last

Monday The Chinese have acknow-ledged that their bombardment of Vietnamese border positions is part of a strategy to put China has claimed that its shelling of Vietnamese positions pressure on Hanoi over neigh-

Minister Tinsulanonda of Thailand left Bangkok yesterday on a six-nation tour that will include a meeting with President Ronald Reagan and discussions about the Victnamese occupation of neighbouring Kampuchea, Reuter reports from Bangkok.

His 20-day trip will also include meetings with leaders of Canada, Denmark, Yugo-slavia and West Germany. His trip to Switzerland will focus on discussions with Thai

The official China Daily news-paper said the attacks were linked with the current counterattack by Thai troops against Vietnamese forces near the Thai-Kampuchea border.

ambassadors to Europe and Africa. Meanwhile, Thai border roops were placed on full Khmer Rouge guerrillas are engaged in heavy aghting, General Arthit Kamiang-Ek. mander, said. He said the alert was ordered because of the light-ing about six miles inside

were purely in response to provocations, but "the counter-attacks weged by Thailand and China are believed to be the only way to deal with Hanol," China Daily said in a commentary published on Friday.

"The counter-attacks are

Many Western diplomats are sceptical about the Chinese claims. They believe China a leading backer of the auti-Victnamese condition in Kam-puches, is keen to put further ressure on Vietnam during the ry season offensive near the

Rach April for the past three years China has reported attacking Vietnamese border

Xinhma had said the Chinese

stracks were in response to repeated attacks and incursions

by Vietnamese troops since the

beginning of the year. A number of Chinese civilians had

been killed or wounded and

extensive damage caused to buildings and agricultural areas, it said.

# Fighting threatens Beirut plan

By Our Foreign Staff
INDIA'S jute dispute ended at the weekend and hopes rose that the country's longest-ever port strike may be coming to a close. But, on the political front, the violence in the northern state of Punjab continued.

The inte strike, also this

The commision, grouping representatives of the Lebanese army, Christim militias, Druze and Moslem groups, endorsed a plan late Saturday for the creation of buffer zones between combattants in the heart of Belrut and the strategic mountain ridges to the southeast. A special force of 2,000-3,000 internal security force (gendarmes), retired army officers and new recruits would be commissioned to separate the war-

There were no indications of when this policing force would be formed and of the deadline for a pulback by army troops and militias from their present

FIGHTING broke out in and around Beirut yesterday dampening prospects for implementation of a disengagement plan approved by a multifactional military commission.

The security blueprint calls Syrian counterpart, on Wednesson the withdrawal of adversary but there has been no official word from Damascus on the envisioned summif.

State-run Damascus radio gave notice in a commentary gave notice in a commentary of the line of separation, depending on the geographical location and intensity of fighting.

A hasher political military Observers here noted that the

A higher political military committee in charge of stabilising a ceasefire and paving the way for political reforms still inas to approve the disengage ment proposals. Moslem opposition figures have complained that Amin Gemayel, the President, is procrastinating on promised changes concerning the army command structure

Syrian regime was not ready to get too deeply involved in the Lebanese quagmire in order to avoid the embarrassment of failure and because it needed.

the army command structure and political concessions.

The President is seeking Syrian help to pacify Beirut and halt hostilities between the army and Druze fighters in the mountain town of Song al Gharh. He is hoping to meet President Hafez Assad, his Sir days after Palestinian guerrillas struck in the heart of Jerusalem wounding 48 Israelis, Eraeli planes Surraely arided a suspected guerrilla stronghold in Bhamdeun, east of Beirut. No casualties were reported and the damage caused to the farmer guerrilla hase was minor.

## Lalonde may seek top OECD post

By Sernard Simon in Terente MR MARC LALONDE, Canada's Finance Minister, is consider-ing approaches from several member-countries of the Organisation for Economic Co-opera-tion and Development (OECD) to make himself available for nomination as the Paris-based body's next Secretary-General. due to retilire next September.
A spokemen for Mr Lelonde said that Canadian embassies in OECD member-countries have

OECD member-countries have been asked to gauge other governments' opinions on his possible appointment.

Mr Lalende, 54, who speaks French, is a lawyer and political economist by training and a close confident of Mr Pierre Trudean. Canada's outgoing Prime Minister. He was appointed Finance Minister in September, 1982.

April 9, 1984

This announcement appears as a matter of record only. KANSAI PAINT CO., LTD.

DM 50,000,000 31/2% Bearer Bonds of 1984/1989

unconditionally and irrevocably guaranteed by

The Sanwa Bank, Limited

Osaka, Japan

with Warrants attached to subscribe for shares of Common Stock of KANSAI PAINT CO., LTD., Osaka, Japan

issue Price 100% · Interest: 3 1/2% p.a., payable annually in arrears on June 1 (first interest payment on June 1, 1985 for 411 days) - Redemption on June 1, 1989 at par- Denomination: DM 5,000 - Security: unconditional and irrevocable guarantee of The Sarwa Bank, Limited, Osaka, Japan; Negative Pledge Clause- Warrants: each DM Bearer Bond will be issued with one Warrant attached giving the right to subscribe 1,565. hares of Common Stock of Kansai Paint Co., Ltd. at a subscription price per share of Yen 276. The subscription period will be from May 10, 1984 through May 16, 1989 - Listing: Frankfurt/Main (Bonds and Warrants) The street of the street of the street of the

COMMERZBANK

DAIWA EUROPE

CREDIT SUISSE FIRST BOSTON' SANWA BANK (UNDERWRITERS) YAMAICHI INTERNATIONAL (EUROPE)

CITICORP CAPITAL MARKETS GROUP

DALICHI KANGYO INTERNATIONAL COUNTY BANK

FUJI INTERNATIONAL FINANCE

SOCIETE GENERALE

**GOLDMAN SACHS** 

INTERNATIONAL CORP. THE NIKKO SECURITIES CO.,

KLIWAIT INVESTMENT COMPANY (S.A.K.)

LEHMAN BROTHERS KUHN LOEB

(EUROPE) LTD.

Amounts due from banks

SOCIETE GENERALE DE BANQUE S.A.

NOMURA INTERNATIONAL

3,581.5

WOOD GUNDY

3.728.5

6.1226

384.8

313.8

10.549.7

International S.A

Condensed **Balance Sheet** as per December 31, 1983

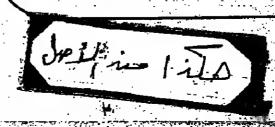
WestLB International S.A. 32-34, boulevard Grande-Duchesse Charlotte P.O. Box 420 L-2014 Luxembourg Telephone: 447411

Subsidiary of Westdeutsche Landesbank Girozentrale. Düsseldod/Münster

6.611.1 Loans and advances to customers 391.7 337.9 Other assets 10.922.2 LIABILITIES Amounts due to banks Current deposits and other accounts Other liabilities.

previous year in millions of DM. 9.430,9 9,436.1 346:3 563.6 237.4 275,6 125.4 Share capital 125.5 Reserves 186,9 199.0 210.4 **Provisions** 12.7 12.4 10.549,7

ert as well as the profit and loss accounts will be published in the



10.922.2

One

# President back in control

FORCES loyal to President Ahmadou Ahidjo, himself a Christian, succeeded ex-Presi-Paul Biya of Cameroon were northern Moslem and head of dent Ahidjo as bead of state yesterday back in control of state for 22 years since when the latter resigned sudstrategic installations in the capital, Yaounde, following two days of sporadic fighting with members of the presidential guard attempting to overthrow the Gavernment overthrow state for 22 years since independence. Reports in Paris identified the rebels as a group of Mosiem northerners in the President's Republican Guard, possibly no the Gavernment

guard attempting to overthrow the Government.

A communique issued yester-day by the Armed Forces Minister called nn any remaining rebels to surrender to the army was reported to be mopping np last pockets of resistance.

The failure of the attempted in ortherners in the President's President Biya moved to reinforce bis own position, and dismissed a number of key northern Moslems who had been dismissed a number of key northern Moslems who had been the early hours of Friday morning, seizing key points, accused his predecessor, now telecommunications head living in extle in the south of France, of plotting to return to power. At a trial in February

mopping np last pockets of resistance.

The failure of the attempted coup was sealed nn Saturday night when President Blya, whose whereal-buts had been unknown, came on the radio in an emotional broadcast to announce that "complete victory" had been gained over the rebel soldiers.

However, the comp attempt has seriously dented the reputation of the Cameroon as nne of the most economically viable and politically stable states in Africa.

It underlines the continuing tension between the largely Moslem north and Christian south of the country, since the resignation in 1982 of President

mopping np last pockets of residential palace.

Loyal troops were rallied by the gendarmerie, and an army lieutenant-colonel, who ordered reinforcements from Duala, the country's Tonye M'Bog, the Foreign Minister, Naked the coup attempt to the trial, blaming the action of the complete victory by resident Biya and of our national army—who remained faithful to the constitution—fonght methodically and with determination, and achieved complete victory by late Saturday morning."

He said the objective of the action was not mutiny, but "to action and action of the former colonial power of the largest part of the state, were never entirely easy, unlike those with President Biya, a technocrat.

Relations between the two became increasingly difficult as

# Zimbabwe SE statement likely

BY TONY HAWKINS IN HARARE

A STATEMENT on the future of the Zimbabwe Stock mid-March.

Exchange may be made this week in the wake of last month's firms left in Zimbabwe and one of them is expected to close. sweeping new exchange control regulations.

The new measures included a proposal whereby the Zimbabwe Government will acquire the pool of blocked foreign securities beld by nominee companies in Zimbabwe on behalf of both residents and former residents.

The proposed share acquisition is being challenged in the courts both here and in Sonth Africa, but the immediate con-

cern is whether the Zimbabwe Stock Exchange can survive

Market officials say that the

a market. If one closes, the Government will have to allow corporate membership by finan-cial institutions to keep the

The market is also seeking a ruling from the Government on the future of so-called dual register stocks. These are shares in Zimbabwe companies—such as Falcon Mines, Wankle Colliery and MTD Mangula—

It seems unlikely that the Government would want to sell such assets abroad and even less likely that there would be

any willing buyers.

Brokers say that aithough no decision has been announced existing legislation requires at no decision has been announced least two broker firms to make as to who will sell the foreign securities once the Zimbabwe Government purchases them, the expectation is that Morgan Grenfell will handle the transaction.

Meanwhile, Dr . Bernard Chidzero, Zimbabwe's Finance Minister, is to attend the interim meeting of the International Monetary Fund board of Stock Exchange can survive without the external pool.

Brokers say that some 90 per quoted on foreign stock markets and therefore treated as stantially to re-negotiate its external securities. governors in Washington this

French soldiers

to stay in Chad

despite deaths

six others in a land-mine inci-dent announced at the week-

The deaths, qualified by M.

Charles Hernu, the Defence Minister, as an "accident" rather than as a result of

enemy action, represent by far France's biggest setback since it sent 3,000 troops into the

central African country to de-

fend the government against Libyan-backed rebels last

Angust.
The Defence Ministry said the

deaths were "probably" caused by explosion of a mine. A rep-

resentative of Chad'a opposi tion movement Gunt said in Brussels that the deaths oc-curred when French forces stumbled on a mine field, and

claimed that Chad government troops were also killed and wounded.

UK set to send envoy to Angolan rebels

Britain is willing to send an envoy to Angola to meet anti-

government rebels in return for the release of 16 British workers they are bolding, Mr Malcolm Rifkind, junior foreign minister, said in London yesterday, Renter

reports.
In Lisbon a spokesman for the National Union for the Total Independence of Angola (Unita) said his organisation was await-ing the arrival of the British official. Units is to release a group of Portuguese bostages in time for their return to Lisbon on Thursday, the spokesman said, and other foreigners, apart from the Britons, would be freed soon.

France and its 13 African partners in the franc zone eco-nomic group said Saturday "everything possible must be done" so that Africa does but

become "the forgotten continent in development," AP reports from Paris. The statement was

issued after a two-day meeting

and sub-Sahara African nations.

The Nigerian army has rounded up at least 6,000 people suspec-ted of being criminals, illegal aliens or religious fanatics in

Lagos, a military police officer told national television last

A sabotage attack by anti-Markist guerrillas knocked ont power lines from neighbouring South Africa and left Mozam-bique's capital with reduced

AP reports from

6.000 held in Lagos

night, Reuter reports.

Maputo power cut

Plea for Africa

By Our Park Staff

# Congress outcry grows at mining of Nicaragua ports

ANOTHER Congressional out-cry over President Ronald well within the 200-mile terri-Reagan's Central American torial limit claimed by policies was brewing in Washington as further details mile limit that the U.S. respects, Nicaraguan ports were revealed

Members of Congress said the latest disclosures would increase pressure on the Administration to stop the mining.

It would also reinforce efforts in the House of Representatives to block Mr Reagan's request for another \$21m (£15m) in aid to the U.S.-backed "contra" Nicaraguan rebels, which was approved by the Senate last week, they added.

U.S. officials confirmed that Americans working for the Central Intelligence Agency had been supervising the mining in recent months from a ship off Nicaragua's Pacific coast. The mines were being placed by an elite group of Latin American commandos, using small, highThe intelligence ship, while THE FRENCH Government is keeping firmly to its military peace-keeping commitment in Chad in spite of the death of nine soldiers and wounding of

Meanwhile, the New York Times reported yesterday that the Reagan Administration was drawing up "routine" contingency plans for the possible use of U.S. combat troops in Central America if its current strategy for defeating leftist forces had not worked by 1985 or 1986.

Hugh O'Shangnessy adds: Britain would continue to press the Reagan Administration to balt the mining of Nicaragua ports, Mr Ray Whitney, Minister of State at the Foreign and Commonwealth Office, said in a

radio interview yesterday.

His undertaking came after be was pressed by Mr Denis Healey, the Opposition foreign affairs spokesman, to do more to halt the mining which has interview the livrae of Principal Communications of the communication of the communicatio jeopardised the lives of British crews in Nicaraguan waters.

## Latin America debt plea BY HUGH O'SHAUGHNESSY

THE UNITED NATIONS Economic Commission for Latin America (ECLA), the region's principal think-tank, has called for the renegotiation of Latin America's \$350bn (£240bn) foreign debt.

In a resolution adopted by a large majority on Friday night at the Commission's 20th congress in Lima, ECLA said that the present debt crisis was principally a consequence of factors outside the control of debtor countries, including high

# The Scottish Metropolitan **Property PLC**

## Interim Statement

15.2.83

	(unaudited)	(unaudited)
Net Revenue from Properties Other Income	£3,471,671 515,873	£3,263,265 443,26
Interest Paid and Admin. Expenses	688,618	632,086
Group Profits before Taxation	3,288,529	3,065,803
Available for Dividend	1,823,388	1,578,78
Available it bividens	1,552,104	1,454,902
Dividend-Interim	271,284	123,880

The Directors have declared an increased interim dividend of 1.6p per share (1983–1.5p per share) on an issued share capital of £19,401,296 (1983-£19,398,697) and anticipate that they will be able to recommend an increase in the rate of final dividend for the year ending 15th August 1994.

# majority in Wisconsin caucuses

By Reginald Dale, U.S. Editor, in Philadelphia

FORMER Vice - President Walter Mondale reversed bis defeat in last week's nonblinding Wisconsin primary by Winning a clear majority in the state's Democratic cancuses at the weekend.

Mr Mondale won 54 per cent of the cancus vote. against 29 per cent for his chief rival, Senator Gary Hart of Colorado, and 15 per cent for the third remaining ! candidate, the Rev Jessie Jacksen.

The vote translated into 46 Mondale delegates to July's nominating convention in San Francisco and 25 for Senator Hart, according to unofficial estimates. It was not clear yesterday whether the complex voting rules would allow Mr Jackson any delegates.

In Tuesday's npen "heanty contest" primary, in which about 20 times the number of people voted. Mr Hart beat Mr Mondale by 46 to 42 per cent. Mr Hart attributed yes-terday's reversal to the fact that nnly generally pre-Mondale party leaders and activists had attended the cancuses

Nevertheless, the results gave a further boost to Mr Mondale in advance of Tuesday's important primary in Pennsylvania, where the latest Washington Post/ABC News "tracking poll" showed the two men neck and neck

with 41 per cent each.
With the Wisconsin delegates included, the latest unofficial count by ABC News gave Mr Mondale 964 of the 1,967 Convention delegates needed to win the Presidential nomination against 550 for Mr Hart, 145 for Mr Jackson and 465 uncommitted.

# Forces loyal to Cameroon Mondale has W. German chemical sales boom

BY JONATHAN CARR IN HANOVER

THE RECOVERY in the West whole will rise by over 10 per According to the VCI, chemithe the same period on investments. German chemical industry is cent to more than DM 140bn cals turnover last year rose by The next two decades prograthering pace with record (511.6bn).

7.6 per cent to DM 126.8bn with mised to bring a hour in innovation worldwide in which the sales, better use of capacity, and more jobs expected in 1984. The industry's association, the

by 15 per cent in nominal terms many, are taking on extra in the first quarter, with foreign labour. sales even more bouyant than

Already, many chemical components to reign sales up flearly 10 per valid worldwide, in which the more jobs expected in 1984.

The industry's association, the full capacity, and a growing cent. The number of employees fully share, expectably in south Gerbler fell by 1.8 per cent to 549,000.

The VCI's optimistic tone is

Although the January-March results are being compared with a particularly weak first quarter last year's stagnation, are now of 1983, the likelihood is that buying beavily to build up of 1983, the likelihood is that buying beavily to build up roughly as much as it spent in to top last year's 600,000.

Already, many chemical com- foreign sales up nearly 10 per

One reason for the rising sector might be becoming less demand at home is that dealers, innovative than its foreign which sector which sector model at the sector might be becoming less than over's industrial Fair.

vation worldwide, in which the

Rejecting accusations that the typical of the buoyant mood at

# Soviet warning on U.S. Arctic flights

MOSCOW - Soviet fighter pilots firepower of the Air Defence For
The U.S. and South Korea bave fighters and even ship-based helicomplained yesterday of frequent ces, one senior air official told the strenuously denied Soviet charges copters, they added. complained yesterday of frequent spy flights by Western aircraft in the Arctic and warned that if any intruded into Soviet airspace they

would be destroyed. Pilots at an unidentified northern sirbase told the newspaper Trud that Nato jet reconnaissance aircraft and even helicopters repeated-ly patrolled on the very edge of the Soviet air frontier along the Russian Arctic coast. "If the enemy should think of vio-

lating the border of the U.S.S.R. he lating the border of the U.S.S.R. he pilots in the Far East and the north will immediately be faced with the had to be on constant alert. ried out by U.S. and West European

newspaper.

An Air Defence general drew a direct parallel with the shooting nown of a South Korean airliner in ing that Western aircraft were very and size up the kind of resistance the Fer East last September in careful when they approached the which U.S. strategic bombers would which all 269 people nn board were knew "they would not go unpun-The general said the jumbo jet ished" if they crossed it. killed.

bad been sent in on a spying. The pilots said the U.S. sent SR-were near Soviet missile and mission which had been a major 71 high-altitude spy aircraft and bases oo the Kola Peninsula.

military-political provocation and RS-135 reconnaissance aircraft The Trud report was publis showed that Russian Air Defence

that the airliner was on an espionage mission for U.S. intelligence. Soviet air border because they meet.

from bases in Britain to the Soviet mark Soviet Air Defence Forces

The report said the missions

were intended to probe Soviet radar Trud quoted Soviet pilots as say- defences and scrambling routines

Although the area was not identified, it appeared likely the patrols were near Soviet missile and naval The Trud report was published to

# Frankfurt runway protest fears

of peaceful demonstrations done."

lasting throughout the week. Herr Walter Waisz, one of

These turned into running accept it. The concrete is there Reuter

FRANKFURT — Frankfurt
Airport's controversial third
runway is due to npen on Thursday, but protesters are not giving up efforts to prevent the
21-mile strip going into operatioo
Groups of protesters against
Runway 18-West, as it is
named, have called for a series
of peaceful demonstrations
battles with protesters, when dealthe youths
thousands were injured.
"We expect clashes and bave made preparations," a police
spokesman said. An airport posed in the 1960s to cope with
spokesman declined to give
details of security but said:
"Everything necessary bas been to give the airport, the busiest in Europe after London's Heathrow.

Police, however, fear the protests will lead to a repeat of the group, said: "The runway is a increase in noise in surrounding the surrounding that it is there, but we won't ing villages.

## Grenada parties unite to fight election

By Our Foreign Staff

THE MIDDLE-of-the-road Grenada National Party (GNP) is to fight the forthcoming elections in Grenada jointly with the U.S. supported Grenada Democratic Movement and the National Democratic Party.

This was announced in Barbados at the weekend by Mr Herbert Blaize, 66, leader of the GNP and a former Premier Grenada. Mr Blaize said he expected the elections to take place in the last four months of this year.



The far-sighted Hortescue-Smythes may have heard that American Airlines First Closs and Business Class across the Atlantic is rather popular these days.

It could be that the British rather like our International Flagship Service non-stop to Dallas/Fort Worth.

It's true that unlike other airlines, our cabin staff are trained to the exacting standards of a well-known luxury hotel group. And unlike other airlines, we understand that the businessman likes to keep up-to-date.

So we provide an in-flight update of investment news by o leading financial analyst. And a news magazine prepared by CBS. On video, of course.

All of this may not be surprising when you reolise that unlike other airlines, we flew the competition, noted their good points and only then created a service that bettered them,

Now, the Ffortescue-Smythes may be somewhat premature in preparing for young Jeremy's business trips. But they may like to know that when he's ready he can reserve the seat of his choice up to 11 months in advance via our computer reservations system and we'll hold it for him until 30 minutes before the flight leaves.

For seat availability and any other information, contact your travel agent or ring American Airlines on 01-629 8817.



# **Davignon** warns on technology transfer

By John Wyles in Brussels

THE European Community could be beading for "a major fight" with the U.S. over the transfer of high technology. Viscount Etienne Davignon, the European Commissioner for Industry, said at the weekend.

Concern is growing in Brussels over the strength of demands from the Pentagon and the U.S. Congress for nighter control on the transfer of U.S. technology with a potential military application.

M Daviguon said that if the our agriculture dispute."

Speaking at a conference on EEC-U.S. relations at Knokk, Belgium, M Davignon stressed Beigium. In Designation of the implications of any tightening of U.S. controls for existing co-operative arrangements between Eupropean and Ameri-

# Japan reaches agreement on U.S. beef and citrus quotas

Special Trade Representative, followed an apparent breakdown in talks on Friday.

the Reagan Administration and for Mr Brock. The Administra-tion may be hoping that it will is estimated that this could raise

The new agreement, reached on Saturday in talks between Mr Shinjiro Yamamura, the Japanese Agriculture Minister, and Mr William Brock, the U.S. Special Trade Representative to increase the U.S. beef quota to increase the U.S. beef quota form the level of \$0.800 tonnes a year over the important political victory for tonnes a year which it reached the Reagan Administration and in the last year of the expired agreement to 58,400 tonnes. It

New York: U.S. import restrictions on Japanese cars since tions on Japanese achieved a new sales record in 1983 of 1.897m units, and Ward's expects another restraints also provided this year.

The restraints also provided record this year.

The import restriction policy and incentive to the Japanese achieved a new sales record in 1983 of 1.897m units, and Ward's expects another restraints also provided to reposition their products and has however generated about move up market, "even com-

JAPAN AND the U.S. bave reached agreement on their long-runing dispute over quotas on U.S. beef and citrus exports, under which the U.S. will be able almost to double its beef exports to Japan over the next four years.

The new agreement, reached on Saturday in talks between stead of the save agreement, reached on Saturday in talks between stead of the u.S. bave reached agreement on their long-runing dispute over quotas on U.S. beef exports to counter growing protectionist pressures in the value of U.S. beef exports of use of the value of U.S. beef exports to counter growing from around \$500m to \$800m to \$80 Terry Dodsworth adds from ducing an artificial shortage the Despite the quota system, the New York: U.S. import restriction image of Japanese products has Japanese achieved a new sale.

# **EEC** tries to boost ties with Efta nations

THE European Community
should consolidate its internal
market and then by to extend
the benefits to the seven states
of the European Free trade
Area (Effa) in a way which
provides mutual benefit for
both sides, according to a new
study published juday:

REC and Elix Foreign Ministers are to ment in Laxenbourg this week to tre-Lirenthouse this week to by to start a process of streng-thening the free trade agree-ments which were signed ten-years ago by the BEL and the individual states of Efta-Augria, Switzerland, Sweden, Norway Ecoland, Elwiand and Perlagal.

According to European Research Associates pub-lishers of the report, the case for consolidating West European free trade is over-whelming. "It would enable Western Europe to remain a competitive world industrial and trading power on a par with the U.S. and Japan," it

The last trade barriers between the two sides, relating to forest products, were removed at the beginning of the year creating an industrial free trade zone of F70m people and the Foreign Ministers are faced with the task of defining fainte methods of coordination.

There are two main but overlapping publicins. First, the way in which the EEC completes. It own customs mion and second the way in which co-operation between the two groups is adapted to the requirements of the new industrial revolution.

The strengthening of the EECs internal market is seen by Effa countries as nee-proby lette commines as new pro-fectionist, and getting round this would knyolve the appli-cation of the internal market to Effa, But, the report con-cedes there is little immedi-ate chance of this approach being adopted as only West Germany is by favour. The European Community and

Efta in the 1980s, a multi-client report, by European Research Associates: Brussels 1984 U.S. wine Bill 'a blunderbuss'

THE U.S. Wine Equity Bill. which is designed to open foreign markets to U.S. wine producers, has been described as "the legislative equivalent of sheeting yourself in the foot," by Mr William Brock, the U.S. Trade Representative. The Bill is "worse than awful" and a "blunderbuss" approach to solving the transfer methers of the U.S. wine industry, he said, Louise Kehoe writes from Francisco.

# Fall in Soviet energy earnings could limit spending on imports

gas, may make UK exporters wonder how much leeway the country will have to increase its imports this year.

Some 30 leading British com-panies, led by Lord Ezra, open a week of lectures today setting out the technical merits of their

between Eupropean and American companies.

A senior U.S. Commerce department official said later that President Ronald Reagan had Intervened three weeks ago newspaper, and capped earlier resident Ronald Reagan had intervened three weeks ago newspaper, and capped earlier resident Ronald Reagan had intervened three weeks ago

SOVIET OIL USE 122

At the same time, a senior official has conceded that abortthat President Ronald Reagan had Intervened three weeks ago in the disagreement between the Defence Department and the Commerce Department on the issue, ruling that the Pentagon should not take the lead.

Pravda, the Communist Party official has conceded that ahortomewhad in the conceded that ahortomewhad in the communist Party official has conceded that ahortomewhad in the measurement between the more gas through the new domestic oil output and gas export demand would be serious averaged 1.5m barrels a day being frustrated by weak for the Soviet Union. Energy automatically entail the port bill. The ne pipeline is now components.

Certainly in the longer term, automatically entail to currency revenue forecasts.

Certainly in the longer term, oil traders reports, which domestic oil output and gas export demand would be serious averaged 1.5m barrels a day being frustrated by weak for the Soviet Union. Energy last year apparently partly due account for some three quar-

now be revising their 1984 hard currency revenue forecasts.

lems,
But the Soviet Union has increasing amounts of Middle
Eastern oll et its disposal for
re-export to the West. In the gloomier energy export pros-pects may constrain the Soviet first nine months of 1963, the Soviet Union increased the volume of its energy oil exports to the West by between 15 and 18 per cent to offset an almost comparable percentage decline

pects may constrain the Soviet ability to import.

But, for this year at least, the Soviet Union is not likely seriously to feel the pinch, for several reasons. First, the Soviet Union has very ample gold and bard currency reserves

built up. Second, a leveling-off in oil production does not, in the short term, automatically entail a plateau in exports. Western

comparable percentige decime in energy prices, according to Wharton Econometrics.

A third factor is that 1984 is likely to see a fall-off in the biggest items in the Soviet import bill. The new Urengoy pipeline is now completed and thus requires no more Western components.



drive in UK MORE THAN 40 Hungarian companies are launching a com-mercial assault on the British market in a week-long promo-tion drive opening today in Lon-den and Manchester, David Buchan writes. Hungary is field-ing the strongest delegation to come to the UK for 12 years,

headed by Mr Peter Veress, the headed by Mr. Peter Veres, Gr. Foreign Trade Minister.
Both Hungary and Britain are hoping to capitalise on their newly-improved political relations, following the February visit by Mrs Margaret Thatcher, the Prime Minister to Budapest.
UK exports to Hungary rose by 12 par copt to 192m last year. 18 per cent to £92m last year

18 per cent to £92m last year, and Hungarian exports to the UK by 22 per cent to £54m. Mr Veress will see several UK ministers, as well as Mrs Thatcher. After the death of Mr Yuri Andropov, the former Soviet leader, Hungary asked for a "pause for reflection" before it stanted negotiations for a trade agreement with the European Community, apparently to test the mood in Moscow. UK officials now expect Mr Veress to raise the issue of Mr Veress to raise the issue of British support for Hungary in Agriculture is of key importance to Hungary, Comecon's most successful food producer.

# U.S. company in Chinese

COMPUTER Joint Venture

HONG RONG—The Peking-controlled Ever Bright Industrial in Asia.

Company is to set up a joint wenture with Burroughs of the
U.S. to make meni-computers.

Wang Gaangying, chairman of the entrepreneurial
Ever Bright said at the weekend, itonal energy and

The two companies will produce the B-25 type mini-computer in a Hong Kong fac-tory and another plant in China will produce the B-20 type mini-

Wang said the joint venture has obtained authority from the Paris-based Co-ordinating Committee for Multilateral Export Controls (Cocom) to sell the B-25 will be limited to Hong Kong and

other non-Communist countries in Asia.

William Hall adds from New York: Occidental Petroleum the cotrepreneurial interna-tional energy and natural resources group headed by
the 85-year-old Dr Armand
Hammer, says that "great
progress" has been made
in finalising plans for the deveropment of the world's biggest

open cast coal mine in China. The U.S. company's statement follows months of speculation that the joint venture between the U.S. and China had run into serious financing problems and was likely to be abandoned.

## SHIPPING REPORT Rising demand for iron ore helps keep rates firm

BY ANDREW FISHER, SHIPPING CORRESPONDENT DRY CARGO rates remained from last week, with demand for larger size ships remaining a feature of the market as rising steel output continued to raise demand for ston ore.

While activity was less marked than the previous week, brokers saw signs that rates would go up further in April and May. The Russians remain in the market for ships to carry grain.

grain.
Forecasting a rise in world trade volume of more than 4 per cent this year after 2 per cent in 1983, Lambert Brothers Shipping said this would be a small but much needed imprevement for the shipping reducts.

Declining cargo trends since 1979, it said, had meant that over 500m tonnes of cargo had been lost to the shipping industry. List year, 2.97bn tonnes were carried against 3bn in 1982 and 3.49bn tonnes in

Grain trade across the North Atlantic was quiet last week with the strength of the dollar and the favourable EEC grain crop dampening demand from Europe for U.S. grains.

But the rate from the U.S. Guif to continental Europe at \$10.50 a ton, though marginally down on the previous week, was still far better than seen earlier

## WORLD ECONOMIC INDICATORS FOREIGN EXCHANGE RESERVES

	14	ra-an)		
	. Jan. 84	Dec. 283	Nov. '83	. Jan. 183
US.	6,295		- 6,914	9,490
. W. Germany	37,134	37,313	37,907	40,648
japan UK	20,669	20,344		19,497
	8,529	<b>5.778</b>		9,795
ltaly .	17,913	18,525		13,800
Netherlands	8,438	8,702	-8,707	9,430
Belgium	3,632	3,776	1,843	3,219
*	Dec- 83	Ngy, 43	∵ <del>0ct,</del> %3	Dec. 87
France	. 18,057	18,531	18,702	14,594
1-1-1-1-1				

Follows	
TIC	
den Mice	Fly the Iden Falcor wice daily the Gulf.

Gulf Air's Golden Falcon TriStars fly twice daily to the Gulf. Fly one and you'll enjoy the warmest possible welcome, complimentary refreshments and entertainments, choice of International and Middle

Eastern cuisine: honoured by La Chaine des Rôtisseurs. Voted best airline to the Middle East second year running. There's no better businessman's choice to the Gulf.

For more information call your travel agent or Gulf Air. 73 Piccadilly, London WIV 9HF. Telephone. 01-409 1951; Birmingham 021-632 5931; Manchester 061-832 9677/8; Glasgow 041-248 6381 or Key Prestel 223913.

Executive Travel Magazine October 1983.





# A CAT'S EYE VIEW OF THE NORTH SEA.

We first dipped our toe in the North Sea nineteen years ago with the drilling of our first exploration well.

We then took the plunge and began the development of North Sea oil and gas.

A programme of Esso investment started which to date has reached £3,500 million.

A series of achievements resulted which has helped Britain become more than self-sufficient in oil and a major gas producer as well.

1984 sees Esso continuing its massive investment programmes. This year alone Esso capital and operating expenditure will

exceed £1,000 million, 85% of which will be spent in Britain, supporting around 40,000 jobs . . .

Our exploration and appraisal drilling will be almost twice the record level achieved in 1983; and we will drill a wildcat well West of Shetland in the deepest water ever drilled in the UK sector . . .

New pipelines will be constructed; marketing terminals will be modernised and automated; new refinery technology will be introduced meeting the changing requirements of our customers and preparing for the reduction of lead in petrol; and more new flagship stations will be added to our retail network—the finest service station chain in Britain . . .

All this is happening in 1984.

But what of the future?

Huge investments are required to help maintain self-sufficiency in oil for Britain and meet our customers' needs up to the year 2000 and beyond.

By the end of 1990 alone Esso expects to invest a further £4,500 million in Britain.

CETUS IS DEVELOPING IMMUNOTOXINS WHICH KILL DISEASED CELLS

# Guided warheads of genetics

BY RAYMOND SNODDY RECENTLY IN SAN FRANCISCO

Dr Fildes, president and chief operating officer of Cetus, says the California company is al-ready using genetic engineering tools and the killing power of natural toxins such as ricio to kill specifc cancer cells in the

The company, one of the major U.S. genetic engineering groups, believes it is well advanced in the international race to produce effective immu-notoxins which can kill diseased cells without harming other

Immunotoxins are a combination of two molecues—a mono-clonal antibody tied to a toxin

"It's essentially a guided warbead. The monoclonal anti-body finds the target you want,"

Cetus bopes to get U.S. Food and Drug Administration approval later this year to begin buman clinical trials oo an immunotoxin which kills breast

You can take an immunotoxin made up of a monoclonal antibody specific for breast cancer coupled to a toxin molecule, put the immunotoxin in the presence of the breast cancer cells and it will kill at extremely low quantities," Dr Fildes

Cetus scientists have surveyed more than 20,000 monoclonals to find ones that are specific to major forms of cancer such as lung, colon and

prostate as well as breast. Cetus says it bas developed mice, genetic engineering methods of "On

TOXINS, Dr Robert Fildes explains with relish, are exquisite in the way they kill—a single molecule can kill a cell.

Dr Fildes, president and chief

panies. be believes, are doing the linking by chemical means which may not be so stable.

"Once you beve the ability to make this in a bug you can the several years before to make this in a bug you can the several years before the years and years and years are the several years and years are the

"Once you beve the ability to make this in a bug you can play all sorts of games with it and it gives you greater flexi-bility to develop the most effective molecule for doing the treatment," says Dr Fildes, who comes originally from Ealing in West London. Cetus bas selected the cancer market as one of its major strategic goals and has launched a three-pronged attack on the disease.

Genetically engineered beta interferon, a potential anti-cancer drug, is now undergoing buman clinical trials. The other prong of the attack, interleukin

—2 (IL—2), was approved at
the end of last month by the
FDA for buman clinical trials to see if it is an effective treat-ment for cancer and Acquired Immune Deficiency Syndrome

(AIDS). (AIDS).

IL-2 is a protein that exists naturally in small quantities in the buman body and which belps to regulate the immune system which defends the body against infectious diseases and

"We have shown in labora-tory experiments they work, allow large enough quantities of IL-2 to be made to run extensiva trials needed to see whether it can strengthen the immune systems of AIDS or cancer sufferers. Trials have already begun at the San Francisco General Hospital on AIDS, the often fatal disease of the

Animal experiments at the National Cancer Institute in the U.S. have already showed that recombinant IL-2 will reduce certain tumour growths and pre-vent the spread of tumours in

"Our focus is to find a way making both the toxin and the to treat cancer effectively and linker that binds it to the monowe bave taken three quite cloud antibody. Other com-separate epproaches towards the

on a Parker RB1 Roller Ball.

impressed by the way it writes.

their orders should be addressed.

keen for you to try the RB1 yourself.

plimentary copy of our Business Gifts Catalogue.

test the quality and speed of our service.).

Company, Newhaven, East Sussex BN9 0AU.

order forms and cheques.

prospects look up.

But don't imagine you're buying a cheap pen.

Cetus knows whether it has chosen the right weapons against cancer. Completing clinical trials and putting together a formal claim for a product licence from the FDA will alone take more than three

commercial point of view is an extremely attractive one. It is currently worth \$300m a year in the U.S. It is growing at a fast rate and worldwide it is in excess of \$1bn," Dr Fildes

Cetus is concentrating 70 per cent of its research effort— \$30m—a year on buman bealth

Apart from cancer and diseases of the immune system the company is also working on treatments for serious viral infections. Together Dr Fildes believes the total market in-volved could be worth as mncb as \$2bn with the most conservative estimates suggesting at least \$500m.

But for most genetic engineering companies which like Cetus are specialising in human health care the problem is how to a rviva long enough to see

to rerviva long enough to see whether the promise of the promise of the research can be fulfilled in useful products.

Although the "real play is in the human therapentic area Cetus is generating soma revenue from "short term" products such as diagnostic kits—a genetic screening test for sickle ceh anaemia will be out later this year—and with instruments for the automation of bioments for the antomation of bio-logical and medical research.

arlsbera

Odd, how business picks up when you drop our name.

Especially when your name is emblazoned alongside ours

A personalised RB1 can be yours for as little as £1.43.\*

Its rolling ball glides as wetly as any fountain-pen across

Your name on its barrel reminds your customers to whom

And to whom the cheques should be made payable.

In short, every time our pen is picked up, your business

As one of Parker's business prospects, we are naturally

We'll send you one on six weeks' approval with a com-

(Thus giving you a chance, before you test our pen, to

Write now to Business Gifts Division, The Parker Pen

Or if you can't bear to wait for the postman, dial

Newhaven (0273) 513233. The name to drop is Pauline Beet.

People who try our new Roller Ball are invariably

Revenue is also coming in from the sale of its first recombinant DNA product, a vaccine develop a series of enzymes to designed to prevent a diarrheal modify carbohydrates for food ventures, or licencing or cross-disease in new born pigs which processing. The company is licencing agreements.



sident and chief operating officer Dr Robert Fildes, new pre of Cetus.

Klina subsidiary.

Cetus, Dr Fildes says has enough money to see it through its five year plan. The company, he says, bas around \$90m in the bank and can call on another \$55m from partners.

But the nest egg is needed to pay for the setting np of manufecturing and marketing its products and the aim this year is to bring in \$40m from all is happening out there in those sources to cover the \$40m that will be spent on research.

In the six months to Decem ber there was even a surplus of held top positions in both \$600,000. Beyond the life of the Glaxo, the British pharmafive year business plan Dr Fildes sess significant oppor-tunities in applying genetic engineering to agriculture and industrial chemicals.

Cetus recently signed a joint venture with Nabisco Brands to

is being marketed by a Smith also in e joint venture with Weyerhaeuser, the natural pro-ducts company, to look into enzymes which can modify

> "Such joint ventures bring knowledge of the marketplace of what is really needed. bloody mills?" Dr Fildes points

Last week Dr Fildes, who has centical company and Biogen the U.S.European genetic engineering company was out looking for more deals. He visited major pharmaceutical companies in Garmany, France Switzerland and the UK to talk about possible joint

**TELECOMMUNICATIONS** 

# Telephone with no strings attached

BY GEOFFREY CHARLISH

between the Transfone and the wall where the socket is mounted, so there is no danger of people tripping up, especially in hospitals. The unit radiates only 300 milliwatts and has a

range of up to 200 metres.

Transfone is equipped with handset dialling key-pad, coin unit and telephone directories.

When the handset is in use, the cord to the module becomes an aerial for transmitting the conversation to the phone outlet. Although there is no major technical novelty, the company says it has successfully patented says it has successfully patented (in the UK) the coin-operated cordless phone idea so Mr O'Connor believes he will be free of competition for the time

REGIONAL Telecom, a small company in Norwich, has developed to the prototype stage a cordless pay phone for a year. The body of the unit which managing director Damien O'Connor sees a potential demand in hospitals, hotels, airports, restaurants and other public places.

Transfone, somewhat amaller than a two-drawer filing cabinet, is moved on castors to the point of use and then communicates with a British Telecom telephone socket via a 47 MHz radio link. It weights no more than a television set. No wires trail it is seeking total fands of fire project through to full manufacturing. It is seeking total fands of fire project through to full manufacturing. £150,000. \_

> Regional Telecom is seeking total funds of £150,000

Should this be obtained Regional Telecom plans to subcontract manufacturing to Elecon Systems of Fleet, Hampshire and will either market the units itself or through local PTTs in Europe

such as BT.
Mr O'Connor's achievements

(in the UK) the coin-operated cordiess phone idea so Mr O'Comnor's achievements to date are not without note. In 1978 he started Phone Centre free of competition for the time being.

He expects the price of the unit to be a little over £600. He points out that to rent a conventional coin operated telephone unit from BT costs £300 annually, so the purchased Transfone would "pay for itself" in about two years.

There is, however, an added attraction in revenue terms. The body of the unit will carry 16 pendent telephone supplies."

There is, however, an added attraction in revenue terms. The body of the unit will carry 16 pendent telephone supplies."

Turnover was £0.5m in 1983 and be sold at a suggested price of is expected to double this year.

leading computer company 021-454 8585

# Domestic

robots INTERGALATIC sounds rather a grand name for a small islington company

for a small islington company with six employees. It has been not up to sell small robots for domestic and education use. Those compete with products such as the BBC's Buggy and the Turtle.

Such robots usually have pens attached and are used for teaching the principles of robotics. At the end of April the company is to Isameh its Zeaker II model for less than \$166. The original model I was sold under licence by Coine Robotics has the rights have now reverted to Drold-gmiths.

gmiths.

The company was set up by Mr. David Buckley and Mr. Robin Bradbeer. More information on 01-350 2536.

Instrumentation

# Small lasers

SPECIRA PHYSICS, based in California, has developed a helium neen laser tube which it claims is the smallest and lightest commercially available gas device to date.

The milt is only 4.5 in long and can deliver 0.5 in long and can deliver 0.5 in w of power at a wavelength of 613 nanometric. Applications are expected in seaming systems, industrial control and in medical instrumentation. The UK subsidiary is in St Albans, Herris, on 6727 30131.

MATERIALS PRODUCTION

# Perfect crystals made in space

defects, says the company, and will be useful in high-performance electronic circults.

Semiconductor companies are turning to gallium arsenide as an alternative to silicon, Electruis travel through gallium arsenide very fast. Hence the substance is used for high-speed circuits, for example in tele-communications hardware that handles high-frequency signals. Mr Bob Pace, a vice president of Microgravity Research Assoclates, says he hopes to produce by 1990 40 kg of gallium arsenide made in space. The selling price would be \$1m a kilogram — roughly 100 times the current price of gold. Gallium assemide made conventionally costs about \$20,000 a

Mr Neville Murcott, of the sales department of the British company Cambridge Instru-

Britain's biggest manufacturer it supplies more than half of the material.

Microgravity Research Associates, based in Coral Gables, Florida, plans to produce gality important in the semi-conductor industry—in orbiting laboratories.

In such a laboratory, gravity is reduced virtually to zero so that crystals grow free from distortions caused by weight. Gallium arsenide produced in this way will thus contain no defects. Says the company, and specifically produced by material and are industried. Microgravity Research Associates will then devise production bardware that will be taken into space in the 1990s. Sales in 1982. This production equipment could be housed on the \$50n in 1979. Sales in 1986 in gravity is reduced virtually to zero so that crystals grow free from distortions caused by weight. Gallium arsenide is conventionally produced by what is called the Czochralski process. Gallium and associate mixed and heated to about 1,200 deg Industries in Houston. Space Industries in Houston.

According to estimates, world taken into space in the 1990s. This production bardware that will be taken into space in the 1990s. This production bardware that will be taken into space in the 1990s. This production bardware that will be taken into space in the 1990s. Sales in 1982 in the 1990s. Sales of salium arsenide in 1982 in the 1990s. Sales in 1982 in the 1990s. Sales in 1982 in the 1990s. Sales of salium arsenide in 1982 in the 1990s. Sales of salium arsenide in 1982 in the 1990s. Sales of salium arsenide in 1982 in the 1990s. Sales of salium arsenide in 1982 in the 1990s. Sales of salium arsenide in 1982 in the 1990s. Sales of salium arsenide in 1982 in the 1990s. Sales of salium arsenide in 1982 i

Mr Pace plans for the space electric current is passed through a bath of gallium and arsenic at about 900 deg C to produce ions, which combine to

produce the finished material. Mr Pace expects by 1997 to sell 1,200 kg of gallium arsenida produced in this manner. By the end of the 1990s, the price should have dropped to \$500,000. A kilogram, at which point annual production should reach.

He says that customers will be prepared to pay the high price because the material has an almost perfect structure. Thus it will be used in very high-grade electronic circuits.

sales department of the British company Cambridge Instruments, says he is "very cynical" about whether customers will ever want to buy large amounts of gallium assenide made in space.

"By the 1980s engineers will have produced other ways of into space for nothing.

CLAIMS from the U.S. that making defect-free gallium arsenide crystals grown sarsenide, basing their tech-in space will sell for \$1m a kilo niques on conventional pro- and 1989 on Nasa's space gram by the 1990s have pro- cesses." Cambridge Instruments says should test the technique by duced a sceptical response from Cambridge Instruments says, should test the technique of Britain's biggest manufacturer, it supplies more than half of which he aims to turn out the the material, the last of gallium arsender material. Microgravity Research of the material, the last of gallium arsender material.

a piece of solid material and are build by 1988 a "space canister" pulled from the melt. some 4 metres in diameter and 12 metres long that would stay operation a new process called in space for months at a time liquid-phase electro-epitaxy. An it would house experiments and materials processing hard-ware. About four times a year, astronauts from a space shuttle would visit the hardware to check that all was well and to

make adjustments. Mr Pace, who worked as an engineer for Nasa for 21 years before retiring says that the work by Microgravity Research Associates will cost \$75m to \$100m to 1989. Of this cash, Nasa will put up roughly half, with Mr Pace's company, which he says is backed by private individuals and venture-capital organisations, putting up the

"Space industrialisation is one of the last opportunities that are left for entrepreneurial people," says Mr Pace. "But it requires a new attitude toward investment. You may have to wait five to seven years for a return, normal investment rules do not

## DOCTORS BEGIN TO ADOPT TECHNOLOGY

3,000 kg.

# Medical computers make slow progress MEDICAL Computer Services, MCS, in London has developed a computer system for private hospitals and clinics. The system for private hospitals and clinics. The system gives full financial accounting and hospitals administration the surgery mumbers about 300. diagnostic purposes. Medical computers services, required to operate the system. Most are used for administration with 40 per cent of the work for repeat prescription, and 34 number of doctors in the health service now using computers in mere 8 per cent is used for the surgery numbers about 300. diagnostic purposes.

MCS, in London has developed a computer system for private hospitals and clinics. The system gives full financial accounting and hospital administration on a UNIX-based super-micro. MCS, which is wholly owned by Dearden and Farrow chartered accountants, has built up its business in private health care. The new Medax system can handle theatre and bed bookings, admissions, out patients, master patient indexes. patients, master patient indexes

billing, stock control. The computer can be used to display current and projected bed occupancy, patients' details, expenditure and statistics. There is security access to prevent unauthorised use. MCS says that no special skills are

## **IBM PERSONAL COMPUTER** NETWORKING SERVICE RENTALS **DEMONSTRATIONS** MERCHANT SYSTEMS LTD. 5 NEW BRIDGE STREET ECA

apply."

01 583 6774



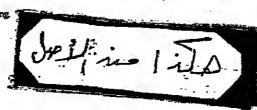
# The Commuter Computer

PC-S006 Communer Computer. It's as light as a briefcase, completely mobile, and capable of performing as many functions as an IBM PC, for only £1,639 with immediate



MICROS FOR MANAGERS 149 GLOUCESTER BOAD, LONDON SW7 ATH TEL: 01-370 5125 - TELEX: 21120 REF-2070





# BUSINESSMAN'S DIARY

UK TRADE FAIRS AND **EXHIBITIONS** April 9-12 Audio Visual Exhibition (01-688

7788) April 9-13 April 9-13
International Fire Exhibition—
LIFE (01-387 5050) Olympia May 15-17
April 12-14
Drillex '84 (0277 220609) Micrographics '84 Exhibition 3nd Conferences (Godalming (Godalming))

Handling Exhibition—
EX (Uxbridge (0895)
Harrogate

Camard International Hotel, W6 SOLIDEX May 1-3
All Electronics ECIF Show (0799 28699)

Barbican

ic

May 1-3
Fibre Optics Exhibition and May 21.25
Conference (0798 26699)
Whithread Porter Tun Rooms
Laternational Fire Safety Conference and Exhibition (01-248 4477)
NEC, Birmingham

May 2-Oct 21
International Garden Festival (051-236 6090)
Liverpool 4333)
May 22-25
Chelsea Flower Show (01-834
Royal Hospital, 5W3

May 9-11 Southern Aids for the Disabled Exhibition and Conference (Tun-bridge Wells (0892) 44027)

May 20-22 May 20-22 Business to Business Exhibition (01-728 0677) Barbican

International Air Cargo Exhibition and Conference (St Riba computer exhibition and conference (01-637 8991) conference (01-637 8991)

Bloomsbury Crest Hetel

OVERSEAS TRADE FAIRS April 14-23 Milan International Trade Fair (01-637 3153) Milan Asian Automotive and Accessories Exhibition (Guildford April 11-15
International Fur Trade Fair (01-734 0543)
April 16-19
European Trade Fair for Technics and Organisation in Banking (Luxemhourg 2 09 31)
Milan April 24-27

International Packaging Exhibi-tion and Display of Confec-tionery Machinery — INTER-PACK (01-493 3893) Dusseldorf

April 24-27
Food and Hotel Asia (01-486
1951)
Singapore International Aerospaca Exhibi-tion (01-651 2191) Hanever

1951)
April 39-May 4
Direct Marketing Symposium and
Exhibition (01/69 48 20)
Montreux Asian International Electronic Communications Exhibition and Conference — COMMUNICASIA (01-486 1951) Singapore:

May 9
Longman Seminars: The electronic hanking revolution—
legal and security problem:
Revolution—
Rev

(01-242 8697) Cavendish Conference Centre

Lougman Seminars: The Lloyd'a Act (01-242 2548) Barbican

Meed: Law and business in the UAE (01-404 5518 Abu Dhabi

# BUSINESS

Metal Bulletin: 2nd International Conference on Copper (01-330 4311) (until April 10) London Marriott Hotel, W1 April 11-12 FT conference: European bank-ing (01-621 1355) Milan April 12 Henley Centre for Forecasting seminar: The UK Economy (01-353 9961)

Systems Components and Materials for Industrialised Building Sector Exhibition (01-486 1951)

Carlton Tower Hotel April 13-14 Goethe Institute, The future of work, challenge and opport.

May 15

So Princes Gate, SW7

April 18

Longman Seminars: Furniss v

Longman Seminars: Furniss y Dawson—the implications (01-242 2548) Barbican April 25-27

76

75

Dawson—the implications (01-242 2548)

Barbican
April 25-27
Insig: Banks and computers (1)
763.07.24)

Paris

Reval Lancaster Hotel, W2 Paris April 26-28
Progress Foundation / IMF:
Money—a search for common ground ((091) 68 92 69)
Lugano, Switzerland
May 3
Institute of Directors: New legislative threats to directors: (01-388 1811) Cafe Royal, WI May 3-4
FT/The Banker: World gold conference (01-621 1355)
Hong Kong

May 16
Institution of Taration: Finance Bill 1984 (01-235, 8847)

Institute of Navigation: Global civil satellite navigation: systems (01-589 5021)

Novotel, W6

May 23-24
FT Conference: Sitey—World FT motor conference (01-621 1355)

Geneva May 16

Anyone wishing to attend any of the above events is advised to telephone the organisers to ensure that there has been no change in the details published.

## Financial Times Conferences

The following is a list of conferences being organised by the Financial Times in 1984:

> EUROPEAN BANKING Milan - April 11 and 12

THE FT WORLD GOLD CONFERENCE Hong Kong - May 3 and 4

SITEV - FT WORLD MOTOR CONFERENCE Geneva --- May 23 and 24

> THE FT/CITY COURSE London --- May 3-June 20

THE ELECTRONIC OFFICE: Threshold of a New Era London - June 5 and 6

OIL AND GAS Oslo - June 18 and 19

WORLD ELECTRONICS: Future Strategies for Europe London - June 20 and 21

FOREIGN EXCHANGE London - June 25 and 26

WORLD AEROSPACE: Aerospace after the Recession London - August 28, 29 and 30

All enquiries should be addressed to:

The Financial Times Limited Conference Organisation Minster House, Arthur Street London EC4R 9AX

Tel: 01-621 1355 (24-hour answering service) Telex: 27347 FTCONF G. Cables: FINCONF LONDON

# **UK NEWS**

# Conoco to develop four North Sea gas fields

BY RICHARD JOHNS AND DOMINIC LAWSON

fields are on the verge of develop-meet by Conoco, which could involve an initial investment of at least £750m.

The fields, all operated by the U.S. oil company, could contain up to 2.5 trillion (million million) cubic feet of gas, equivalent to about 8 per cent of UK proven reserves.

Couoco has been in contact with British Gas for several months. It has effectively begun the process of negotiating a sales contract for the The fields could be producing by

tion that British Gas requires the gas in advance of prospective supplies from Norway's Sleipner fields. Last month British Petroleum

Conoco's fields, of similar size to

will require the construction of a cent). Occidental (12.5 per cent). At-number of unmanned platforms lantic Richfield (12.5 per cent) and number of unmanned platforms and the building of a pipeline lead-ing to a central manned platform. It is likely that at least 70 per cent of the value of the development would the winter of 1988, on the assumpbe undertaken in the UK.

AT LEAST four new North Sea gas co's, are in the southern gas basin fields are in blocks 49/16 and 49/21

The volume of gas supplied could BPs, could produce at a rate of be boosted further if a decision is 450-550m cu ft per day - the equiva- made to include in the development lent of 10-12 per cent of last year's another gas find in a neighbouring average UK demand.

The development of the four fields would cost about £750m at to-day's prices, excluding operating capital. Exploitation of the fields stakeholders are Britoil (37.5 per Marathon (12.5 per cent).

Conoco is very close to agreement with British Gas on a contract to supply gas from an earlier discovery, the Victor field. The last of its wells has just been completed. fields North Valiant, South Valiant Toe contracted output rate is an av-Last month British Petroleum Vanguard and Vulcan. The final erage of 150m cu ft per day, al-(BP) announced development plans well required to appraise Vulcan though the field has the capacity to for four gas fields, which, like Conowas started last week. The four produce at twice that rate.

# Lucas in £20m investment

By Arthur Smith, Midlands Correspondent

LUCAS ELECTRICAL will tell shop stewards today of a £20m invest-Radical changes in working practice will be required and jobs will be phased out.

The decision suggests a setback for Lucas's ambitious hopes of tackling the European automotive mar ket in these products through a deal with Valeo of France. The two companies are almost equal partners in the French loss-making Ducellier. Negotiations, which have in

that whatever option might have once been considered for invest ment in France, the nearly £20m being committed to its Birm operation will enable the UK to

have stretched over nearly seven

BASE LEND	INC DATES
A.B.N. Bank 81%	Heritable & Gen. Trust 81%
A.B.N. Bank 81% Allied Irish Bank 81%	Hill Samuel 81%
Allied Irish Bank 83%	
Amro Bank 8:95	C. Hoare & Co 84% Hongkoog & Shanghai 84%
Henry Anshacher 81%	Hongkoog & Shanghai 8 %
Armee Trust Ltd 81%	Kingsoorth Trust Ltd. 10 %
Associates Cap. Corp. 9 %	Knowsley & Co. Ltd 9:%
Baoco de Bilbao 81%	Lloyds Bank 2106
Bank Hapcalim BM 81%	Lloyds Bank
BCCI Siqu	Edward Manson & Co. 91%
Bank of Ireland 810	Meghraj and Soos Ltd. 81%
Bank of Cyprus 81%	Midland Bank grue
l Bank of India 8192	Morgao Greofell 8:%
Baok of Scotland 81%	National Bk. of Kuwait
Baoque Beige Ltd 81%	National Girohank 81%
Banque du Rhone 91%	National Westminster 81%
Barclays Baok 51%	Norwich Gen. Tst. 84%
Beneficial Trust Ltd 91%	
Denencial Irust Lite 39%	
Bremar Holdings Ltd. 81%	R. Raphael & Soos 81%
Brit Baok of Mid East 8195	P. S. Refsoo & Co 87%
Brown Shipley 9 %	Roxburghe Guarantee 91%
CL Bank Nederland 81%	Royal Trust Co. Canada \$1%
Canada Perm't Trust 81%	J Henry Schroder Wagg 81%
Castle Court Trust Ltd. 9 %	Standard Chartered 84%
Cayzer Ltd 81%	Trade Dev. Baok 81%
_ Cedar Holdings 9 %	TCB
Charterbouse Japhet 8:%	Trustee Savings Bank 8:%
Choulartons 101 %	United Bank of Kuwait 81%
Citihank Saviogs 91%	United Mizrahi Bank 84%
Clydesdale Bank 819	Volkskas Intul. Ltd 84%
C. E. Coates 9100	Westpac Banking Corp 8:%
Comm. Bk. of N. East 84%	Whiteaway Laidlaw 9 %
Consolidated Credits 81%	Williams & Glyo's 81%
Co-operative Bank 81%	Wintrust Secs. Ltd 9 %
The Cyprus Popular Bk. 81%	Yorkshire Baok 81%
Dunbar & Co. Ltd 84%	Membors of the Accopting Houses
Duncan Lawrie 83%	Committee.  7 day deposits 5.25%. 1-manth
E. T. Trust 9 %	6%. Fixed rare 12 months C2,500
Exeter Trust Ltd 91%	ā's £10.000, 12 months 8 25%.
First Nat. Fio. Corp 11 %	1 7 day deposits on sums of: undot
First Nat. Secs. Ltd., 91%	£10,000 5% . £10,000 up to £50,000 6% . £50,000 and over 7%.
Robert Fraser 9105	Cell deposits £1,000 and over 5.0%.
Grindlays Bank \$105	! 21-day deposits over £1,000 64%.
Guinness Mahoo 81%	S Demand deposits 54%.
■ Hambros Bank 81%	1 Morigage base late.

# WINNING THE CONTRACT COULD BE THE FIRST STEP TOWARDS LOSING YOUR PROFITS.

You've organised, calculated, agonised and planned your overseas tender down to the last detail. You've waited. And now you've won the contract.

But in between, did you lose your

These days, more and more foreign purchasers insist on paying in their own currency. And your profits depend heavily on what happens to that currency.

So you try to allow for fluctuations, which is speculative enough when you're dealing in a major currency. If it's a minor or an exotic, the movements could be so quick and so dramatic you could end up working for nothing.

A strategy instead of a gamble.

We can help, with Barclays own Tender to Contract Cover. We'll establish a schedule of fixed exchange rates to match the expected schedule of receipts. The scheme covers any currency where there is an unrestricted spot and forward market.

With guaranteed protection against exchange rate movements you can tender at a highly competitive level, knowing your margin won't be trimmed by currency fluctuations. You can make plans instead of taking risks.

What does it cost?

You begin by agreeing a validity period with Barclays. For the first month, you pay 1/4% of the Sterling value of the contract. For each additional month, you pay 1/8%.

Extending the validity period.

Since one of the uncertainties common to overseas tendering is time, Barclays gives you various options for extending the cover. Suppose, for instance, that the tender period is extended through no fault of your own. We'll extend the validity period on payment of an additional fee. In most circumstances, we'll even maintain the existing exchange rate schedule.

Why choose Barclays?

Barclays can offer this highly specialized service with confidence because of the scope of our international network.

Our branches in 84 countries and our 20 worldwide dealing rooms allow us a 24 hour watch on all the markets you're likely to need.

And because most of our branches are so well-established we offer a long standing knowledge of local markets and conditions.

We can help you think quickly as well as act quickly.

We regularly make markets in over 70 currencies. In many of them, we make the only forward market which puts us in a good position to judge the movements of all currencies, particularly exotics or minors.

There are enough pressures on your profits. Foreign exchange needn't be one of them.

If you'd like to know more, please contact Doug McGregor or Nick Douch at Barclays Bank International Limited, 29 Gracechurch Street, London EC3V0BE. Or phone them on 01-283 0909.





CARTIERE L. DE MEDICI & C.S.P.A.

Caninvest Group

has acquired a 96 per cent stake in

# CARTIERE BINDA

Società per Azioni

The undersigned advised both parties in this transaction

**EUROMOBILIARE** 

Milest. Rebrusry 1984

## **FUTURES**

It is proposed to publish a Survey on the above subject on:

## Friday June 15th

Coverage of the markets will include LIFFE, Agricultural Futures and the International Petroleum Exchange.

For further details and advertising rates, please contact: HUGH SUTTON Financial Times, Bracken House 10 Cannon Street, London EC4P 4BY Telephone: 01-248 8000 Ext. 3300

# Co-op opens up credit card business

BY DAVID LASCELLES, BANKING CORRESPONDENT

THE CO-OPERATIVE Bank this Yorkshire Bank and Bank of Scotweek becomes the first bank to run an independent credit card operation in the UK. Until last weekend, its Visa card business was pro-cessed by Barclaycard's centre in Northampton. It will now be handled by the Co-op's new processing centre in Skelmersdale, North-west

Although the Co-op has few cardholders by UK standards - about 80,000 - its move marks a step towards greater competition in the credit card business, which will be intensified when Trustcard, with 2m cardholders, takes a similar

step next year.

Mr Terry Thomas, the Co-op's chief executive, said "This will give us a degree of flexibility we never had before.

He hinted that the Co-op will be offering more attractive terms to cardholders in order to attract them. away from other banks. These could relate to the cost of using a card, or the benefits attached to having one. He declined to give de-tails but said changes could be ex-

Britain's credit card business has evolved around two major organisa-tions, Barclaycard (which handles a total 9m cards including Trustcard, Co-op after deducting a fee.

lorssnire bank and bank of Scot-land, in addition to Barclays), and Access, which groups the opera-tions of NatWest, Midland, Lloyds handles about 7m cards.

While banks in these groups can theoretically set their own terms for their cardholders, in practice they are restricted by what the sys

The Co-op took the first step to-wards independence several years ago when it became a member of the Visa card group in its own right. Three years ago it started developsoftware from First Data Re-sources, the largest U.S. data processing company, which is part-owned by American Express. Exact-ly a year ago, it gave 12 months no-tice to Barclaycard that it wanted to

Under the new arrangement, Barclaycard will still deal directly with merchants accepting Co-op cards, and will collect Co-op slips and transmit them to Skelme Barclays will also take the commis sions on sales made with Co-op cards, but will pass them on to the

# **European Ferries** seeks to bid for Sealink UK

Sealink, part of British Rail and run in partnership with continental companies, is up for sale to the prieate sector. City of London analysis have suggested the price could ex-ceed £50m and even approach

The Monopolies and Mergers Commission ruled in December 1981 that a bid by European Fer-ries, which runs Townsend Thoresen ferries and had indicated its intention to make an offer for Sea-link, would be against the public inberest. It said that the merged company would dominate the market. European Ferries believes, how-

ever, that now that Sealink UK is ifficially up for sale, as part of the Government's privatisation pro & O Ferries some way behind in gramme, it should be allowed to bid. third place. Hoverspeed, recently European Ferries' decision to taken over by its management, urge the Government to remove the the only hovercraft operator.

ban follows the refusal of British Mr Siddle and that a merger be Rail and its merchant bank adviser, tracen Scalink and European Fer-

Morgan Grenfell, to allow it to re-ries should lead to lower fares as a ceive information being sent confidence in greater efficiency." The

EUROPEAN FERRIES, the main State for Transport, said on Friday Channel operator, will press the that stoot a dozen companies or Government to hift the ban on it bid consortia had shown interest in ding for Sealink UK. It claims that Sealink Although be mentioned no lower fares to the European Conti-names, these are known to include nent could result from a merger of the two companies.

Sealink, part of British Rail and

Sea Containers and a group including National Freight Consortium.

Mr Kenneth Siddle, chairman of European Ferries, said yesterday:

"It is in the public interest that there should be a strong UK operator, efficient enough to withstand

Channel ferry companies.

He added that it was essential for Britsia to have a major operator capable of running an efficient service and maintaining a modern

European Ferries is the biggest cross-Channel ferry company with about 40 per cent of the market, closely followed by Seelink, with P

past three years have seen rises in

# Trading automated

BY OUR FINANCIAL STAFF

LONDON'S foreign exchange and money brokers are finalising a new ers computers through a special electronics deal confirmation sys British Telecom, network, Within bent to replace the present paper-based methods which market par-ticipants use to tally their trades with each other. The new system, Automated Confirmation Service through BT's Packet Switch System or deposited in an electronic mail-

(ACS), is to be launched in May.

Traders presently confirm deals:
either by hand-delivering pieces of paper or sending televes, both of which are prone to error and losses.

box.

The recipient's computers will antomatically match up the confirmation with his own records - a job which are prone to error and losses.

"The new system will link un tradtwo hours of a deal being struck, a



At Sheraton Rowers there's always a welcome drink waiting. Along with other little kon-ries like an over-sized room that comes complete with bathrobe, shippers and cable TV movies. Call our London office at

Brussels Sheraton Hotel (2) Place Rogler, 3. 1000 BRUSSELS BELGIUM

## **MERTRANS**

CHIERRED PROPERTY CONTRACTOR CONT

Mersin Transport A.S. Telex: 67116 Intr Tr/23636 Ciro Tr. Tel: 14074 Mersin-Turkey Serving: IRAQ and IRAN: via Mersin Port

International Transport, Shipping and Insurance Agent, Contractor and Container Operators Custom Formalities, etc.

Ready to on-carriage to Iran and Iraq TEUS GENERAL CARGO, including dangerous goods. Trailers and Semi-trailers of about 250/400 pieces per month.

Industrial plants and heavy pieces up to 70 gwt accepted

Please send your engulries to the above address

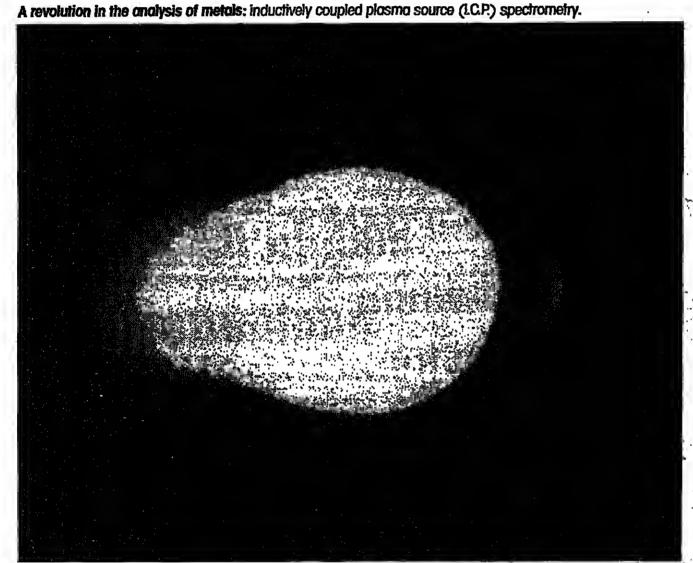
If you are old and alone, friends can be a great comfort. If you know you can rely on them for the rest of your life

- imagine your peace of mind.
We have been looking after the elderly and needy since 1905 and now have eleven residential homes. Here, men and women from professional backgrounds find security and freedom, with nursing care when necessary. They are 'at home' and not 'in a home'—they never have

We also give financial help to old people from all backgrounds who wish to stay in their own homes. We would like to do more but desperately

need niore money. So please be a Friend of the Elderly by making a covenant or remembering us in your Will, or write today with a donation or enquiry to:

The General Secretary, Friends of the Elderly (Dept. D/M.) 42 Ebury Street, London SWIW OLZ Tel: 01-730 8263



# AT PECHINEY, WE'RE NARROWING TECHNOLOGICAL BOUNDARIES.

# AND WIDENING OUR TECHNOLOGICAL LEAD.

With a new commitment to excellence and profitabilitywe've been back in the black since the end of 1983. And with the means - and the strategy - to achieve both. We've regrouped.

We've streamlined our structure worldwide by divesting our uneconomical operations in steel and chemicals. And we're concentrating our efforts and resources on doing the things we do best. Pechiney's traditional activities with a proven track record in generating profits: Aluminium. Specialty metals. New and emerging technologies.

International commerce and trading. We've modernized our aluminium aperations throughout the world. And in New South Wales (Australia), Quebec and France we're constructing the most technologically advanced production plants ever built. Multimillion-dollar investments strategically located to benefit from cheap and plentiful electricity and whose advanced design means they'll consume less of it than any competitive plant

anywhere. With a host of exciting and innovative new products under development, we're also strategically positioned to benefit from the worldwide shift to products that are lighter, more

heat and corrosion resistant and — a familiar refrain — are more energy efficient.

At Pechiney the traditional boundaries between materials are disappearing and new very advanced material technology emerging. Like composites. Technical ceramics. Powder metallurgy. Plasma coatings. Aluminium/lithium alloys. And electronic copper alloys. The material technology of the future. Pechiney's future.

As for our international commerce and trading operations, with fifty companies present in sixty-five countries, here too Pechiney is active.

Ready to take on the competition worldwide. PECHINEY

23, RUE BALZAC 75008 PARIS FRANCE

MATERIAL TECHNOLOGY'S NEW FRONT RUNNER

# NatWest inaction in 1983

# Action for our personal customers

We welcomed over half a million new personal customers in 1983 and more students placed their confidence in us than in any of our competitors.

We will have 1,200 Servicetill machines in operation by the end of 1984 and the reciprocal arrangement with Midland Bank means that our customers are never far from a source of instant cash.

We also helped over 100,000 customers buy their own home and are the only clearing bank to operate a specialised mortgage lending company.

# Action for our business customers

Our total lending to small businesses is now in excess of £4 billion. Within this figure over£1 billion has been lent to 90,000 companies through our Business Development Loan Scheme. We are the market leader in the Government's Small Firms Loan Guarantee Scheme – in September we were the first bank to announce agreed loans totalling over £100 million, over half of which went to new businesses, helping in the creation of 12,000 jobs.

Our support for the agricultural community is expanding and we are now lending well in excess of £1 billion to farmers.

# Action for savers

We now offer a wide range of savings accounts through our branches and the NatWest Saver Service Centre.

In December, we introduced Piggy Bank' and 'On Line', two new schemes for young people which, to date, have attracted over 300,000 new accounts.

# Action around the world

In September, the name of National Bank of North America was changed to National Westminster Bank USA. New offices have been opened in Dallas and Denver while, in the Far East, a representative office was opened in Kuala Lumpur and, in Europe, a marketing office in Barcelona.

# Action for the community

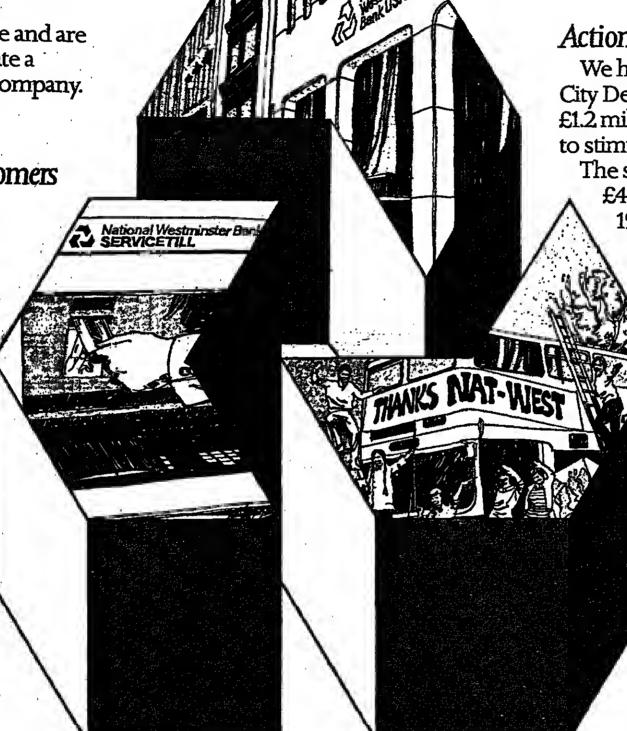
We have initiated a special Inner City Development programme, making £1.2 million available to launch projects to stimulate job creation or training.

The sum was in addition to the £4.5 million the Bank committed in 1983 to its social responsibility programme.

An important feature of our community involvement is the secondment of NatWest employees to a wide range of charitable organisations.

# Action for young people

In addition to the schoolleaver recruits who have
joined us in 1983, we have
welcomed 200 young
people into a programme
of broadly based training
and work experience
within our branches under
the Government's Youth
Training Scheme.



The Chairman, Lord Boardman, comments:-

In 1983 the dominant external factors were the drop in the rate of inflation in most developed countries—especially the United Kingdom—continuing high real interest rates and the disappointingly modest growth in world trade.

At home, the Government's financial policy of firm control of the money supply and containment of the budgetary deficit reduced inflation successfully, bringing it down to levels that we had not seen for some fifteen years. During the year, many industrial and commercial companies and firms, whose survival had appeared doubtful, established much better financial health—though, sadly, there are others where the future is still a cause for concern.

As one of the world's leading banks, we are

## Financial Highlights 1983

Money lodged £55,200 million

Money lent £45,200 million

Group pre-tax profit £503 million

Retained profit £322 million

Copies of the 1983 Report and Accounts, which include the Chairman's Statement in full, may be obtained from the Secretary's Office, National Westminster Bank PLC, 41 Lothbury, London EC2P 2BP, or at NatWest branches.

an important component in the economy of the United Kingdom. We have a responsibility to assist wherever we can in the restoration of the prosperity of the country and to take full account of the national interest in all our operations.

There are signs that the worst of the recession is behind us. Forecasts for economic growth and for the rate of inflation are encouraging and confidence, a key factor, is returning. Business investment is also

expected to recover. However, a further reduction in interest rates would ease the burden on industry, give rise to more capital investment and impact upon unemployment.

The Bank, as a major financial force, has responsibilities towards its shareholders, customers, staff and to the country's economy as a whole. It is our task to balance these interests, to maintain momentum in the provision of an increasing range of financial services and to achieve a level of profits that will enable us to meet the increasing demands of our business.

A NatWest
The Action Bank

# **UK NEWS**

# STERLING MONEY FUND on deposit and write your own cheques

(Annualised compound equivalent 8 ·77 %

TYNDALL BANK

Designed to suit the special needs of British expatriates and overseas residents, the Tyndall Bank Sterling Money Fund is a unique high interest deposit account with a cheque book.

Expatriates benefit from rates of interest normally only available to major investors in the money market and keep their funds immediately accessible. Interest is paid gross without deduction of tax.

- Consider the following advantages: Your money is invested with H.M. Treasury, recognised banks, their wholly owned subsidiaries and selected local authorities — assets of the highest calibre. So you get high rates of interest and the highest security.
- The convenience of a cheque book gives you access to your funds at all times. Use it to pay school fees, for instance, or to transfer to your current account.
- Interest credited four times a year means an even higher return because the interest itself earns interest for you. So the current rate, if maintained, equals 8.77%.

 No reports are made to any government anthority, for non-residents of the Isle of Man. Tyodall Bank (Isle of Man) Limited is licensed under the Manx Banking Act 1975.

The Tyndalt Group is one of the leading investment management groups in the UK and is wholly owned by Globe Investment Trust P.L.C. Funds managed within the Globe Group exceed £1,000 million

\* Rate on time of going to press. Current rate published dully in the Financial Times Minimum opening deposit \$2,500. Regular savings from £100 per mouth. Send off now for a booklet and application form by completing the

Tyndall Bank (Isle of Man)Limited 🗕 Dept FTF, 30 Athol Street, Douglas, Isle of Man Telephone: (0624) 29201 Telex: 628732

Please send me full details of the Tyndall Bank Sterling Money Fund. I am/am not a customer of Tyndall Bank (Isle of Man) Limited.

# NatWest may face extra tax bill of £577m

BY DAVID LASCELLES, BANKING CORRESPONDENT

NATIONAL WESTMINSTER, Brit- per cent in the first year. The aboliain's second largest bank, calculates that the Government's deci- the tax shelter from those earnings. sion to phase out capital allowances

cent budget, NatWest says in its annual report out today that the total additional bill could be as high as 1961m. It doubts, however, that it cial sheet of paper slipped into the Sixty per cent of £961m would

only that the extra cost would be in

NatWest avoids saying how it will could cost it up to £577m in extra taxes.

In the most precise statement yet this will happen is not yet certain. by any of Britain's leading commer-cial banks on the impact of the re-leasing business it writes over the next couple of years as capital al-

tion of those allowances removed

would ever have to pay more than annual report, which was completed per cent of this. One reason is ed and signed seven days before the that the budget also cut corporation March 13 budget. NatWest has de- man, said in his statement - also cided against adjusting its 1983 acamount to £577m, but NatWest said changes.

The extra tax liability arises because banks never expected to have to pay tax on earnings from their leasing business, thanks to capital allowances which amounted to 100 bank could dip into its reserves and deal with the problem in one go, but to the company's leasing equiption if the first capital, and a rights issue would almost certainly be necessary.

the bank could pay the taxes out of earnings over several years, which would leave its capital unimpaired but produce lower profits.

NatWest has said only that "this matter is under consideration," but it seems to be veering towards the

NatWest's total group profits, amounted to £503m before tax in 1983 compared with £439m the year before. Its tax charge was £102m, Ironically, Lord Boardman, chair-

written before the budget - that counts in the light of the tax helped to reduce the amount of cor-The figures shed some light on poration tax the bank pays. He not-the dilemma facing NatWest. The ed that much of the benefit was bank could dip into its reserves and passed on in the form of lower costs

# Blow to investment profitability

BY MAX WILKINSON, ECONOMICS CORRESPONDENT

nvestment will be significantly reuced in the long run as a result of the budget tax changes, London broking firm W. Greenwell says in an analysis published today. The analysis considers the effect

of the phased withdrawal of the 100 per cent first-year allowance for capital investment against corpora-tion tax and the reduction of corporation tax from the present 52 per cent to 35 per cent. The main conclusion is that the

cut in corporation tax will not fully

THE profitability of new company drawal of the first year allowances, there will in all probability be a when the changes have been fully implemented after March 1986.

> In the interim period, Greenwell confirms the Treasury's general claim that companies will gain a substantial tax advantage from their investments because they will still be able to claim some tax allowance for the investment, whereas the profits eventually made by the investment will be subject to a low-

large but temporary boost to indus-trial investment during 1984-85 and 1985-86. The current economic recovery will, accordingly, broaden from consumer goods industries to capital goods industries."

A further analysis of the likely effect of the changes on company cash flow comes to a rather differ ent conclusion, however. This is because the 100 per cent first year al-lowance for capital investment is to Greenwell says: "An important be replaced by annual allowances conclusion for the economy is that spread over the life of the plant.

# Treasury jobless forecasts challenged

By Anton La Guardia: UNEMPLOYMENT will continue

to rise for the next five years to a peak of 14% per cent in 1988 unless the Government changes its policy radically to boost growth to around 4 per cent, says Lloyds Bank in its monthly eco-nomic bulletin published today.

The bulletin, written by Mr Christopher Johnson, the bank's economic adviser, says that this would mean abandoning hopes would mean abandoning hopes of eliminating inflation, but would not necessarily return the country to double digit inflation. Mr Johnson believes that unemployment could be brought down to around 9 per cent with-

out triggering rampant inflation. The report says that the Treasony's predicted growth of 2% per cent for the next five years, which is higher than the projec-tions of most independent fore-casters, could not bring down un-employment as the Treasury claims.

This is because productivity increases are unlikely to fall be-low 2 per cent a year and the lahour force is expected to contin-ne growing by 6.4 per cent until

The report predicts an average growth of only 2 per cent to 1988. It says that GDP will grow by 2% r cent this year com 2 Treasury forecast of 3 per cent, because earnings are rising too rapidly for Britain to maintain its share of export markets.

Mr Johnson imposed a political cycle for his predicted average growth of 2 per cent for the next five years. He says that growth will fall steadily to 1½ per cent in 1986, and the Govern-ment will react to rising inflation by raising interest rates. This would prepare the ground for expansion just before the next general election, which the report cpects in 1988.

Unemployment could rise to a peak of 14% per cent in 1988 even after allowing for a I per cent fall next year, because of the aboli-tion of the national insurance surcharge, which helps to reduce then grow at 3 per cent in 1989 and 1999.

# A Guide to **Financial Times Statistics**

is the simple all-in-one volume answer

Know what 'new time' dealings are? Divergence limits, straddles, spot rate? Do you really know your way around the statistics pages of the Financial Times? Understand the vital information locked up in those tell-tale figures?

Your ideal Guide If not, you need a copy of the book that makes everything crystal clear:

'A Guide to Financial Times Statistics', Just published in a new edition. Already a big seller, this updated edition has been specially written by the FT's

Very practical — for everyone Here you'll discover precisely what FT statistics are; how they are computed; what they are used for, how you can find your way around the FT statistics

pages ... and more. invaluable to bankers, pension fund managers, accountants, marketing executives, export managers, private investors and students.

The Share Information Service How the FT Calculates Earnings

The "Financial Times Index" The FT-Actuaries' Indices, Calculation Overseas Share Prices - Unit Trust Prices Currencies and Money - Options and Futures Commodities - The Euromarkets

UK Company Data - International Company Data General Economic Data and Official Statistics UK Economic Indicators, Overseas Statistics

News Summary - International Edition Appendix the Measure of Things The FT-Actuaries Share Indices Constituents of FT Stock Indices - Index Only £9.50 UK US\$ 19 overseas including postage and padding. Clip this coupon and return it to us with

your cheque. Today! Please return to: The Marketing Dept."
Financial Times Business Publishing Ltd.
TOZ Gerkenwell Road, London BCTM SSA, TE: 01-251 9321. Real order address only). ie note payment must accompany order, Prices Include postage and packing. l enclose my cheque value E/USS \_\_\_\_

hone:		· , .	<u></u>		 		. '.	• •
SE USE OL	oox	CVPI	ALS	` _	-		· -	
nication .	٠,				 			_
-		<u> 1. 1 </u>		• • •	 			· .
	-		-,-/	74,	 _:	3.	•	7

# **COMPANY NOTICES**

SCHLESINGER INTERNATIONAL FUND

BANQUE INTERNATIONALE POUR L'AFRIOUE

OCCIDENTALE US\$30,000,000 Floating Rate Notes 1982-1988. The rate of interest applicable to the interest period from April 9th 1984 up to October 9th 1984 as determined by the reference agent is [17], per cent per annum, namely US\$58.78 per note of US\$1,000.

CITIES SERVICE OVERSEAS FINANCE, N.Y. 7 PER CENT NOTES

YOUR EAST LONDON OFFICE with West End Quality Phone Mr Parkin 555 5437

SWEDLAND.

**ELUBS** 

lans. plamorous hostesies, exciting hows. 189. Report St. 01-724 0557.

ART GALLERIES

E & DARBY, 19, Cork S

LE OIRECTOIRE

CREDIT D'EQUIPEMENT DES PETITES ET DES

CONTRACTS AND TENDERS

SUDAN RAILWAYS STORES DEPARTMENT

- CONTRACT No. 5567 Supply of Steel Tyres for Carriage and Wagon Wheels 2 — CONTRACT No. 5564 Sale of Scrap Mixed Brass and White Metal Turnings Controller of Stores, Sudan Railways, invites zenders for the above. Adiways, established above.

Details, specifications, drawings and special conditions can be obtained from:

Sudan Government

Purchasing Agent

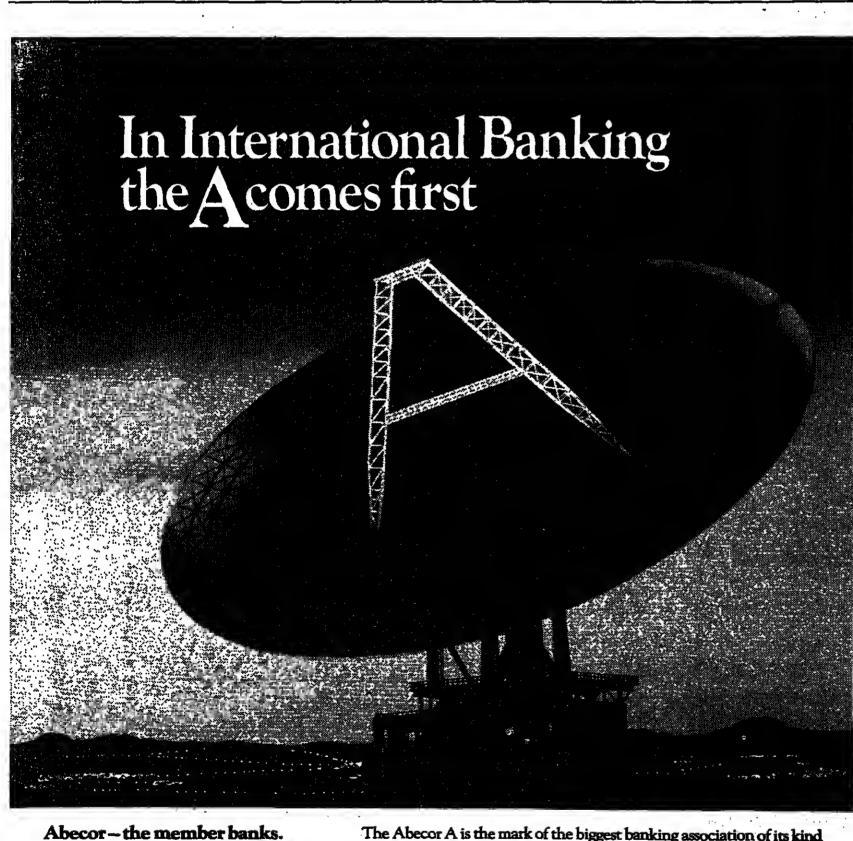
3.5 Cleveland Row

Selamas 3

3-5 Cleveland Row
St. James's
London SWIA 1DD
againse payment of 0.50 per
set for each Contract — by
Cheque or Postal Order only
made payable to "Sudan Government Purchasing Agent."
Closing dates fixed for acceptance of tenders in offices of:
Controller of Scores

Sudan Railways PO Box No 65

15th May, 1984 for Contract No. 5567



ABN Bank (Algemene Bank Nederland) Banca Nazionale del Lavoro Banque Bruxelles Lambert Banque Nationale de Paris Barclays Bank Bayerische Hypotheken-und Wechsel-Bank AG (HYPO-BANK) **Dresdner Bank AG** Österreichische Länderbank Banque Internationale à Luxembourg **Associated Member** Banque de la Société

Financière Européenne

The Abecor A is the mark of the biggest banking association of its kind in the world. As a client - that gives you significant advantages in international banking.

Clear route to international finance. With Abecor, your credit rating holds good in each of the member countries. Through the network of 12,000 branches of the member banks - in 120 countries you can count on expert analysis of market conditions. You can arrange quick transfers of funds, settle accounts locally.

Locally Based - Internationally Strong. In international banking, size is important. Abecor's 9 leading banks with assets of over US \$440 billion can call on their combined financial skills, with direct links to every major market. And it's all as close as the member bank in your country.

The biggest banking association of its kind in the world.

# **UK NEWS**

David Fishlock, Science Editor, reports on a £459m European fusion project

# Simulating the sun's energy

QUEEN KLIZABETH and President François Mitterrand of France will be present today at the formal inauguration of Jet the Joint France department of the land the fewer management problems, for inauguration of Jet, the Joint Euro- department of fuel and energy at pean Torus, at Culham near Oxford. Jet is a £450m European research collaboration to study the basic far the most generously funded of physics of thermonuclear fusion as possible afternatives to staple metha step towards finding a new source of electricity for the next century. of electricity for the next century.

Visitors to Jet are often impressed by its heavy overhead power lines, comparable to those of the nearly Didget cost those of the

nearby Didcot coal-fired power station. They comment that Jet must contribute generously to the nation's electricity.

from contributing electricity, their apparatus will consume about as much power as Didcot produces search, no one yet knows how to have search the thermomelear reacduring the brief spells when they are running it. During such runs, they will attempt to simulate the conditions of temperature, pressure and radiation present in the sun, by intacting electrical charge into injecting electrical energy into what Jet's project director, Dr Hans-Otto Wuester, calls the world's biggest magnetic bottle.

Jet is an experiment which brings together about 1,000 engineers and scientists scattered in fusion research laboratories throughout 12 European countries. They built it in five years, for about £175m, only about 8 per cent more (excluding inflation) than was estimated when the European Community's Council of Ministers approved the project in 1978.

International groups

vie for satellite deal

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

both headed by UK companies, Telecommuni

have submitted bids for the Inter-

national Maritime Satellite Organi-

sation's proposed next-generation \$500m (£349m) nine-satellite sys-

tem, to become operational from

British Aerospace's Dynamics

Group and Hughes Aircraft of the U.S., jointly head one group; the other is headed by Marconi Space System together with Ford Aero-

space and Communications of the

U.S. and Aerospatiale of France.

The Inmarsat system provides

B, and sub-systems on three satel- age.

TWO INTERNATIONAL groups, lites belonging to the International

satellite communications for world- ceiving and transmitting stations in

wide shipping and offshore indus- the U.S., Japan, Norway, the UK, tries. The system uses a U.S. Mari- Kuwait, Singapore, France and sat satellite, the European Marecs Brazil, giving virtual global cover-

nisation (Intelsat).

tem, providing ship-to-shore, shore-

to-ship and ship to-ship communi-

Leeds University, in a talk in London last week. Nuclear fusion is by ods - coal, hydro, nuclear fission -

ment (R and D).

Moreover, this investment is mainly m exploring basic physics of fusion reactions, using apparatus such as Jet, and not in developing The scientists explain that, far the technology and engineering of

> harness the thermonuclear reactions of an hydrogen bomb explo-sion in a way that will release heat slowly, safely and controllably.

Dr Hope rates the chances of eventual success - that this re-search will ever demonstrate the technical feasibility of fusion power as being between 30 and 70 per cent. Should it prove unfeasible, he says, "the costs of fusion R and D

will bring no economic return."

Even if fusion proves technically feasible it may be too costly to compete successfully. The competition, looking 30-40 years ahead as the earliest possible date for commercial fusion reactors, will be the fast breeder type of fission reactor.

example with radioactive wastes.

The cost of harnessing such powerful reactions safely, however, and centres and the support laboratory of frequently replacing expensive reactor parts destroyed by the in-tense radiation, could put fusion power beyond the cost of fast reactors. Fast reactors have already been shown convincingly to work, and may yet be shown to be an ef-

Dr Hope draws the "very tenta-tive" conclusion that "no country, cial spin-off ventures, planned to however large, would be economistart this spring, is an R and D club cally justified in going it alone on for companies for whom "struck by fusion R and D solely to supply electricity for its home market. Only it it expected to dominate the world market for fusion reactors

would such a solo effort be justified. He concludes that a collaboration uted a 20th of the cost to secure a 20th of the benefits - should they occur - could be justified economi-

To try to avoid the risk of a self-perpetuating activity, the European Community agreed to fund only Jet's construction and a service of experiments expected to last until 1991. There is no "next project" be-

well cost five times as much as Jet,

Adjoining Jet, linked by a bridge is the Culham laboratory of the UK Atomic Energy Authority, one of the world's leading fusion research

ior Jet. The laboratory spends about £18m a year on fusion research. But it also earns money from the sale of its skills in high technology, for example in the design of high-power lasers, needed to extract data from fective way of consuming radioac- the heart of an apparatus such as

lightning" can spell commercial dis

The club - to be called the Culham lightning studies unit - will use its expertise and equipment in generating immense pulses of elecin which 20 nations each contribmake artificial bolts of lightning Such holts can be up to 1m volts, with currents as high as 200,000 amperes. At close range the thunder-clap is so loud as to be painful.

Companies likely to join the club include Westland Aircraft, for whom the increasing all-weather use of helicopters in the North Sea

is posing problems in storms. The ing planned at Culham.

The next fusion experiment could to fly through the "worst lightning" environment we can imagine," in a the scientists say. It may be so cost-ly that a still wider collaboration, ways of protecting the aircraft.

# Directors say technical education inadequate

tinental European competitors as a troduced into education. result of the poor image of vocational and technical education, according to the Institute of Directors.

Because of expanding demand, Inmarsat expects to lease addition-al satellite capacity in the next year In a submission to Sir Keith Jo-seph, Secretary of State for Educaor so, especially on another Enro-pean satellite, Marces B-2, which is expected to be ready for service in tion and Science, the institute urges major changes in Britain's education system to close the gap between education and employment, By April this year, 2,350 ships were equipped for the Inmarsat sys-It wants to alter the balance of a system which produces a workforce tionally qualified, compared to 60 cations. There are 10 land-based re-

per cent in West Germany. The institute says that the world of work and schools should be brought closer together. It urges stronger links between schools, polytechnics and universities and encouraged to run suitable courses.

BRITAIN is falling behind its con- more management disciplines in

It wants teachers in training to spend some time in industry or commerce and qualified teachers to combine industrial or commercial experience with in-service training. It argues for a "proper balance" in pre-university education between dustry's needs,

The institute also urges that the in which only 30 per cent are voca- polytechnics should be firmly redirected to being centres of excel-lence in technical subjects.

It comments that, even with high



Everyday, JAL Executive Class adds to the comfort of travellers flying to the Far East.

Luxurious comfort. Graceful Japanese hospitality: A separate cabin behind First Class. More room to stretch

## JAL EXECUTIVE CLASS

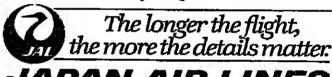
out and relax. It's all part of the sumptuous

service in JAL Executive Class. Seating is only 8-abreast. Seat pitch is increased to 37 inches. Seats recline to 37.º Comfort is the word—with 6-inch

armrests, even a footrest to relax you. A 'welcome' glass of champagne is waiting for you on board. In-flight service offers you separate hors d'oeuvres. followed by a choice of superb meals served on chinaware. Linen napkins and tablecloths add to the style. There's also complimentary bar service and in-flight entertainment.

Enjoy it all on our B747s flying daily from Heathrow

With our exclusive Japanese hospitality, JAL Executive Class sets a new standard for long-distance travel.



JAPAN AIR LINES FOR DETAILS, RING YOUR NEAREST JAL OFFICE:-LONDON 01-629 9244, BIRMI

# The Pencil is dead. Long live the Thought Processor.

## The best ideas start with a simple thought.

Every operation in your business starts with a single thought. From the simplest correspondence to the most exciting new project - everything comes from your ideas. But how much time do you waste, and how many good ideas get forgotten, because it takes too long labouring with pencil and paper to note everything down?

But now there has been a revolution in your office. The Thought Processing revolution from Harris, and the pencil is dead.

## Suddenly there are more productive hours in your day.

With Thought Processing you can get more work done, in less time. Thought Processing makes vou more efficient - because it saves you the time you waste writing notes in longhand.



You can produce all kinds of work - correspondence. internal memos, notes and reports - at the speed of thought, not at the speed of a pencil. It's far more than dictation. All your good ideas get recorded—and you can edit and amend your work, until it is exactly the way you want it.

For your information, the name is Harris.

From a secretary in your pocket, to a system . to serve your whole organisation.

There is a thought processor to fill your needs. To slip in your pocket, or base in your office. Even to let you call



## .The team behind your office.

We have teams of experts waiting to help you. Experts in training your staff, in helping you get the best from your equipment, Engineers, Specialists of all kinds. All there to support you. They're what make our approach different.



system of office automation so sophisticated, we call it the Thinking Office. Word Processing, Business Processing, to make working faster, automated filing, accounting, forecasting, personal computers to give all your executives access to the information they need - and a network to link everyone in your organisation -all just waiting for a

& HARRIS

word from you.

Find out more about the Thinking Office, with our new book, It's free. Phone your nearest Thinking Office Advisory Service or return the • • coupon below. It will help you discover all the possibilities of the Thinking Office - and how Harris can help you.

Harris – UK Headquarters Harris Systems Ltd., 153 Farnham Road, Slough, Berks. Tel. 34666. Telex 848174  London Office Harris Office Systems 171 Grays Inn Road, London WCIX 8UE. Tel. 01-837 6400. Telex 297689  Name (Mc/Mrs, Miss) —	Distributors DBM (Bristol) 294591 Russell Hamilton (Glasgow) 762 3269 A+EC (Watford) 31571 Crowhurst (Leeds) 501312 T&D Norton	I would like a cop The Thinking Of Harris Thought F Processing and e can help my com efficiency and im To: Harris Office 171 Grays Im London WCI
Title		

by of your free new book. fice, showing how Processing, Business executive computing pany achieve greater proved profits. Systems

n Road,

Company Name Address Postcode



034

4.0

27.

# UK NEWS

# Clinical trials begin soon on genetically engineered drug

BY CARLA RAPOPORT

widespread commercial uses in Europe of a genetically engineered drug - to speed the healing of broken bones and severe burns - are to start this year.

The trials, which will take place in Western Europe, will administer genetically engineered human growth hormone (HGH) to patients suffering long-bone fractures as well as seriously burned patients. In both cases, HGH is expected to accelerate the healing process significantly.

The data HGH which it will cases to make HGH, which it will market as Somatonorm, with Generated to begin climical trials on the new uses for HGH this year, but only in North America.

Under its agreement with Generatech, the U.S. biotechnology company. Genentech, the U.S. biotechnology company. Genentech is also expected to begin climical trials on the new uses for HGH this year, but only in North America.

Under its agreement with Generatech Kabivitum has the rights to genentech for using its biotechnology company. Genentech is also expected to begin climical trials on the new uses for HGH this year, but only in North America.

Under its agreement with Generatech kabivitum has the rights to Genentech for using its biotechnology company. Genentech, the U.S. biotechnology company. Genentech is also expected to begin climical trials on the new uses for HGH this year, but only in North America.

Under its agreement with Generated to be a seriously burned patients.

In both cases, HGH is expected to generate and the use of the use o

To date, HGH has been used only to treat pituitary dwarfism, a relatively rare disease. The two other genetically engineered products, human insulin and interferon, have yet to find widespread commercial

acceptance or applications.

The new clinical trials of HGH
will be carried out in Europe by KabiVitrum, the Swedish-based pharmaceutical and nutritional products company. Mr Nils-Olof Jo-hansson, vice-president marketing of KabiVitrum, said recently. To have abundant supplies of a hormone which causes no side effects and which has a number of applications to diseases which have no cure, I think we are talking about a breakthrough in medical technolo-

**EEC** farm

By Richard Mooney

deal defended

by Tugendhat

BRITISH farmers were not treat-

enting Brussels agricultural package, Mr Christopher Tu-gendhat, vice-president of the EEC Commission, said at a meet-ing of East of England Conserva-

He admitted that British, West German and Dutch farmers had

suffered support price ents in their national currencies while the others had been granted in-

"However, this line of rea-soning overlooks two vital-points," he said. "One is that in-flation rates differ widely within the Community. In those coun-tries in which nominal prices

have tisen, inflation is in general

The other is that in Britain, Germany and Holland, farmers were getting significantly higher prices in real terms before the

He claimed that even after the

Mr Tugendhat said the fact that British dairy farmers would be forced to make bigger cuts in

ment than those received

righer than in the UK.

The results of clinical trials of the product on children with pituitary dwarfism are expected this year, ac-cording to KabiVitrum. They are encouraging, said Mr Johansson, "The children are growing perfectly well, with no side effects." He said that product licences to market the drug for this disease are expected in Europe by early next year.

The new clinical trials on posser fractures are likely to be concentrated in Britain, a centre for this area of research. The burn studies will be concentrated in Sweden, for the treatment of arthritis, but which has extremely advanced the CSM says that safer alternatives are available. The committee

CLINICAL TRIALS for the first KabiVitrum developed the pro- older people. Young people are rap-widespread commercial uses in Euthose patients which can benefit most from the treatment." In the case of burn treatment, the company will be initially aiming to help patients in danger of dying from

> through genetic engineering was developed in the late 1970s by Gen-entech. Kahi Vitrum has been a from humans since 1968, but has been limited in its research in this area because of the limited avail-ability of suitable donors. The hormone can only be removed after death. It has recently completed a new plant to make HGH in Sweden. The British subsidiary of Ciba-Geigy, the Swiss drug company, is appealing against a recommenda-tion by the UK Committee on Safen Europe by early next year.
>
> The new clinical trials on bone the anti-inflammatory drug oxyractures are likely to be concentrated in Britain, a centre for this feets.

burn treatment centres.

Mr Johanssen: said that HGH recommended last month that all would most likely be used for partients with fractures that had not for eye drop preparations, should healed normally, primarily those in be taken off the market.



Sheltered Housing with extra-care for the elderly in need. This offers a new chance to hundreds who would otherwise spend their old age in loneliness and insecurity.
At this season of renewal of hope, will you send a special covenanted Easter gift to help us help them? Please!

By covenanting you can increase the value of your giving by 43p in the £1.

I promise to subscribe S

for a minimum of four years to help MHA care for the elderly in need, and wish to covenant this gift\*

Post this coupon to MHA, Dept FT. Freepost, London SW1P 3BR and a covenant form for your signature will be forwarded

METHODIST HOMES FOR THE AGED. Reg. Charity No. 218504

found in Invergordon

That means companies here can qualify for one of the most comprehensive and generous financial

assistance packages available anywhere in Britain.

And we do mean anywhere.

Invergordon EZ and HIDB—a financial assistance combination you can't afford to ignore if you're starting, expanding or moving—especially if your

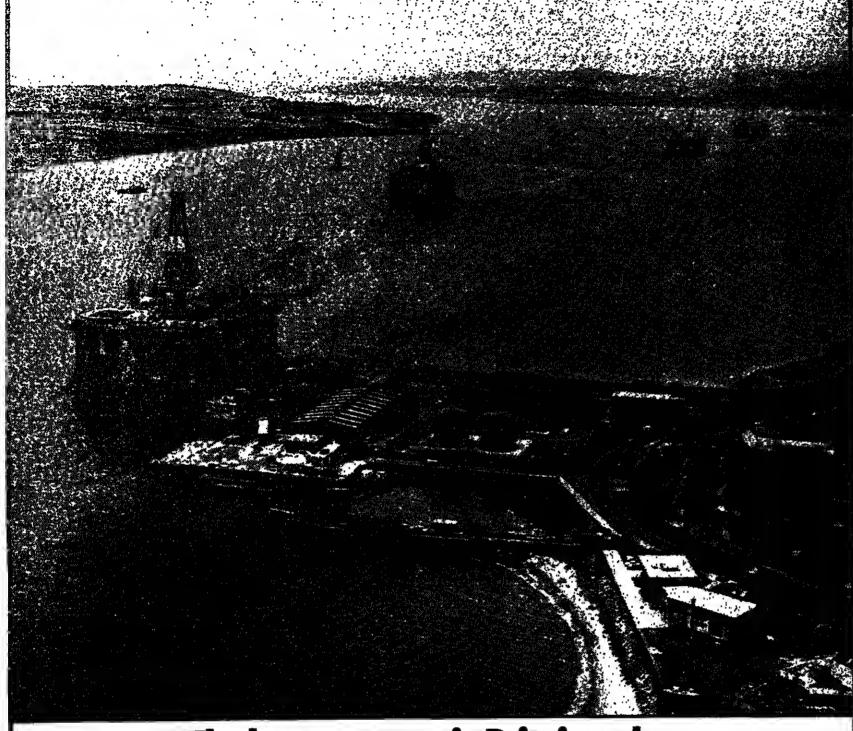
Invergordon is twenty miles from Inverness-on the Cromarty Firth. It's the location of Britain's major centre for the inspection, repair and maintenance of mobile It's also the location of Britain's newest Enterprise

That means major benefits—like no rates to pay for companies starting or relocating here.

But Invergordon is more than just another EZ.

It's in the Highlands & Islands Development Board

business is oil-related. One phone call will bring you the details.
Invergordon Enterprise Zone
62 High Street, invergordon, Ross-shire
Tel: (0349) 853666. Telex: 753584 INVERGORDON



The best pay zone in Britain today

December 1983.

This announcement appears asamatter of record only.



# BALLAST NEDAM GROEP N.V.

US\$84,867,816.00

**Syndicated Guarantee Facility** 

In connection with an Airfield Facilities Project

partly counterguaranteed by Nederlandsche Credietverzekering Maatschappij N.V.

Arranged by Amsterdam-Rotterdam Bank N.V.

Provided by Algemene Bank Nederland N.V. Amsterdam-Rotterdam Bank N.V. Arab Bank Limited-OBU-Bahrain The National Commercial Bank Saudi American Bank

Amsterdam-Rotterdam Bank N.V.

December 1983.

This announcement appears asamatter of record only.



# BALLAST NEDAM GROEP N.V.

US\$202,000,000.00

**Syndicated Working Capital Facility** 

In connection with an Airfield Facilities Project

partly counterguaranteed by Nederlandsche Credietverzekering Maatschappij N.V.

Arranged by Amsterdam-Rotterdam Bank N.V.

Provided by Algemene Bank Nederland N.V. Amsterdam-Rotterdam Bank N.V.

Citibank N.A. Nederlandsche Middenstandsbank nv

Amsterdam-Rotterdam Bank N.V.

# How many investors in business INVEST IN THEIR OWN BUSINESS BRAINS?

At most investment companies, there is never a shortage of financial brains. Whereas business brains may often be very thin on the ground - if there are any at all.

At 3i, on the other hand, you'll meet both. But you won't meet a single stuffed shirt.

We're a private sector company and our attitude is both creative and innovative. And, because we're businessmen, we're quick to recognise a good business challenge.

Equally, and in all modesty, we are well equipped to act on our decisions.

Within the 3i group, we deal with large projects and are prepared to back any one com-

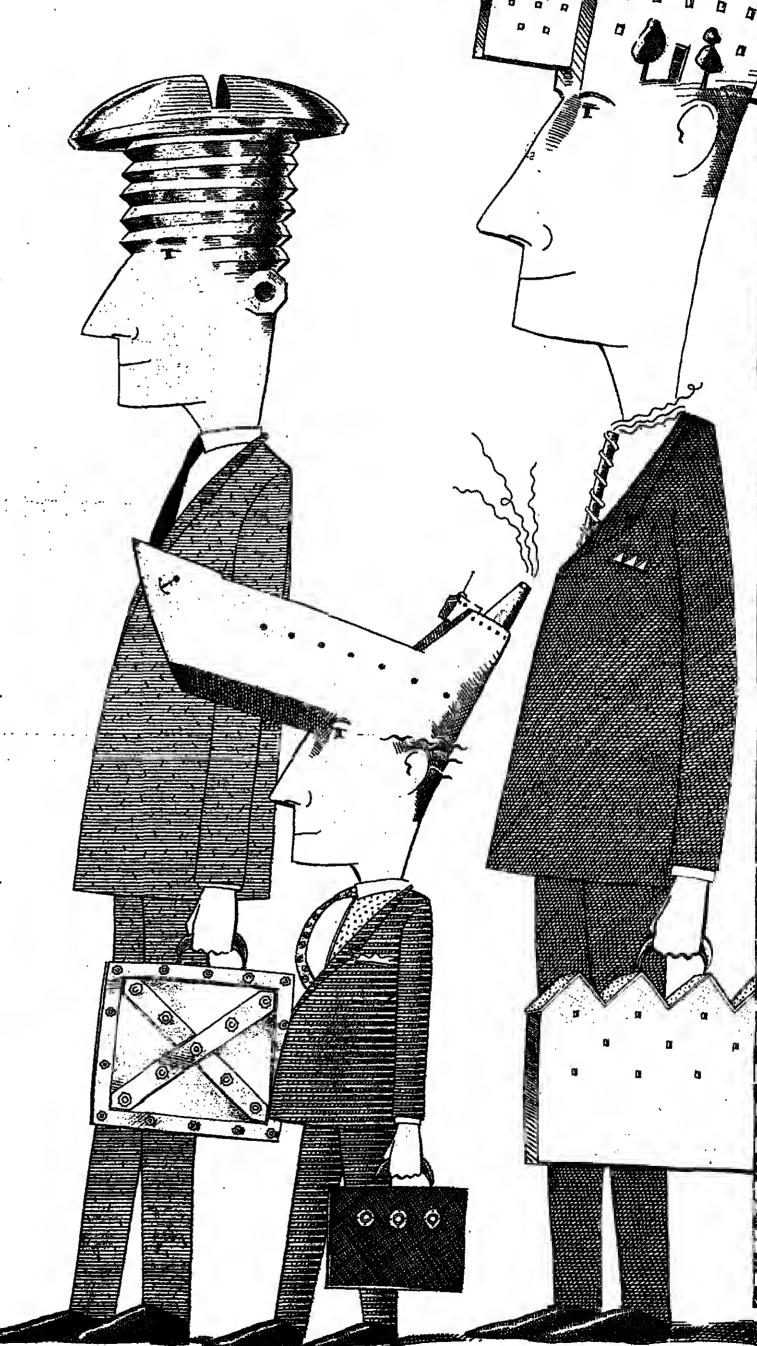
pany with up to £35m or more; we have ICFC, whose understanding in industry of small companies' problems is

unique; and our Ventures Division who specialise in high-technology businesses.

Up to now, we have enjoyed long-term relationships with over 8,000 businesses. But we're always looking for fresh opportunities.

Thank goodness we've got the brains to recognise them when they arise.

THE CREATIVE USE OF MONEY



come to realise—some through painful experience—the need to speak up persuasively in Brussels and Strasbourg if they are to ensure that their interests are not bypassed. As the Euro-pean parliament (based in Strasbourg) has grown in importance since 1980, it has more and more been the target of this attention.

of this attention.

"After key debates you can hardly fight your way through the crowd of lobbyists outside the chamber," says Derek Prag, MEP for Herifordshire and himself a former lobbyist.

"Far more British companies

go to Strasbourg now," says
Peter Anderson, European
specialist with the Charles
Barker public relations group.
"The European parliament
really can take action to support
an industry—for instance, it
watered down the Commission's proposal for recycling drinks containers when it was approached by the drinks industry."

Lobbying is seen as a perfectly legitimate activity and there is currently no control on lobbyists or even a register on lobbyists or even a register of MEPs' interests, though one has been proposed. MEPs are frequently retained as consultants to interest groups. While the parliament is commonly regarded as toothless, the fact is that since a decision by the European Court in 1990.

by the European Court in 1980, no measure can become law unless and until its opinion on proposed legislation has been formally transmitted to the Council of Ministers. Effec-tively it now bas the power of veto. And with an elected parliament instead of the previous appointed one, MEPs have become much more vociferous on behalf of their constituents.

legislation However. any company fearing for its interests would be wise to start there. "We try to consult as early as possible with the Commission to avoid real lobbying later," says Caroline Colvin, bead of the CBI's European Community Department in London, Then you need to stay tuned in, as issues can take several years to go through the mill. Even then you sometimes get taken by surprise."

"The Commission is one of the most open bureaucracles in the world," says Derek Prag. "The sooner it bears about objections, the easier it is to meet them. It really wants to hear outside views and solutions while it's drafting legislation.
It's looking for belp with
information and statistics."
Most British companies have

rejected the idea of setting up an office in Brussels as a lobby-ing springboard because of the

# Knocking at the door

Colina MacDougall explains how business can best lobby the European Commission



ation is initiated at the Commission and any company fearing for its interests would be wise to start there "

from members' subscriptions, and numbers have declined because of the recession. Fur-

thermore, as one expert said,
"the trade association's view is
likely to be the lowest common
denominator," and this is
especially true at the European
level where one can speak for

Unlike the trade associations,

claims success in raising the ceiling on size of companies excluded from that directive from 500 employees to 1,000.

The CBI will also advise on companies' specific difficulties.

"It's taking some people in Britain a long time to catch up with the Community, especially

try to take people over there show them round the Commis-

10 countries.

cost (£100,000 annually, at the last count by the CBI). The exceptions are mainly the multinationals like Shell and Unilever. A surprising number of Americans and Japanese have set up listening posts there and are often to be seen among the lobbyists.

In Britain the favoured option for the biggish company is the in-house specialist, who is often part of the public affairs departpart of the public analys department of the company and works part-time on Brussels business. Marks and Spencer, for instance, has a three-day-a-week Euro-man. "Before be started, we didn't exactly miss anything but we were always being taken hy surprise et how far issues bad gone," says one M and S man. "Now be's constantly going to Brussels and we're much better briefed."

An alternative approach is through the trade associations. With more or less efficiency, they represent their industry, garner information and put their views into Brussels, mainly through their Europe-wide organisations. The Comif they don't trade with Europe," says Colvin, "They need help. Lots of our members aren't even aware that we have an office in Brussels. We mission prefers to hear from a trade association rather than e company, and indeed one senior Commission official recently told a multinational lobbying on its own account to push off.

Trade associations vary enormously in size and resources, sion, take them to Strasbourg, Today many are short of funds lay on lunch with suitable because their finance comes guests. We may be able to find the right person to solve their

Private consultants provide another option, "though people tend not to call us in until the situation's really desperate," one complains ruefully. Unlike practitioners of the Westminster art, consultant specialists in European lobhying in London can still be counted on the fingers of two hands, though in Brussels there are about 200 companies which do consultancy work. Some of these have English-speaking staff.

First in the property of the daily floor of the dai Some consultants have chalked up remarkable successes. In one case, a multimilion pound business faced

extinction when the Commisextinction when the Commis-sion wanted to ban meat tenderisers. The company tried to make representations through its European-level trade association but falled to generate support because its particular tenderising process is only used in Britain and Treland

Consultants then approached the Commission, but it refused to budge. However, at the committee stage the consultants managed to convince the Dutch and German members to alter "tenderisers" to "all forms of dangerous substances."

Not all lobbying works. For instance, in recent years the instance, in recent years the Brewers' Society has tried to persuade the Community to permit the old "tie" system—under which pubs buy all their goods from the breweries—to continue. But the Commission's new ruling, while allowing a version of the system, gives the pubs more freedom to purchase goods other than beer else. goods other than beer eise-

British MEPs felt the brewers' case was hadly presented at DICE probably gives a view of Strasbourg. Besides displaying the degree of risk and uncertainty with which we regarded one consultant felt the brewers the project," says Tim Breene, but and insufficient according to the project. had paid insufficient attention to MEPs of other nationalities -a common failing among

Unlike the trade associations, the CBI has its own small office in Brussels in sddition to working through the Union des Industries de la Communauté Européenne (UNICE—the umbrelle organisation for national industrial bodies). It handles industry-wide problems like the restriction of noise volume in factories or the effects of the 5th Directive—the so-called Vredeling directive—which would compel worker representation on company boards. It claims success in raising the British companies. More important, as far as Europe was concerned, the hrewers didn't have a good case. Their interests clashed with the Community's, which after all is there in part to encourage competition. On top of that, con-sumer organisations are strong in Brussels, and carry much weight with the Commission's directorate-general bandles consumer affairs.

But where a company has a sensible cause and makes a timely presentation, a well-run lohbying campaign can achieve

Cable television

# Why entertainment alone will not produce the profits

BY RAYMOND SNODDY

A BLEAK, uncompromising— and unprofitable—picture of the future of cable television as an entertainment medium has been drawn by McKinsey, the man-

agement consultants.
With the first film channel to use cable already signing up its first customers and the 11 winners of new franchises now planning their networks and raising their finance, McKinsey has issued a general warning. It maintains there is a danger that many people with the wrong managerial skills may be

planning to offer the wrong sort of cable services and market them in an inappropriate wey.
Although new films will be a
major attraction of cable TV,
McKinsey believes that an entertainment-only service is never likely to achieve a positive cash flow—unless it is sub-sidised by a cable layer such as

British Telecom.
"Total operating losses under optimistic assumptions (for a 100,000 home franchise) will reach £10m by the late 1980s and never be recouped," McKinsey concludes after a 15-month study of the prospects.

McKinsey staff with exper-ience in banking, marketing, electronics, telecommunications and advertising were brought together for a project called DICE - Domestic Information Communication and Entertainment.
"The fact that we called it

one of the two McKinsey partners involved.

The aim was to look at the broad issue of the impact of digital technology on the home and et how managers should be responding to the consequences of the deregulation of broad-casting and telecommunications and the growing competition in financial services.

A lot of work bed been done, McKinsey believes, on the office of the future but little on the home of the future or what home banking and shopping would mean for retailers and clearing banks. "Our purpose was to evaluate the nature and pace of the development of the bome of the future and to see if it had any implications for today's business leaders or whether it was some futuristic cliche," says Breene, who has worked for both Mars and

Unilever.

The DICE players believe that cable could act as a major catalyst for change—and new jobs—in British society. But it is only likely to fulfil this pro-● If more major companies put

their full financial and manag-erial weight behind it;

If telephony services for both business and the domestic con-sumer are added to entertainment from the outset;

If new and imaginative methods are devised to get cable

methods are devised to get table into homes in the first place.
"The most significant prob-lem fecing the industry is poor management," Breene believes. Christopher Goodall, a mem-

The DICE team believes that in a franchise area covering 100,000 homes and with an average number of businesses the telephony revenues could be £24m a year at 50 per cent cable penetration—of which the cable operators would keep around £3.5m.

Revenues from entertainmentonly systems would be between £7m.£9m a year at 50 per cent penetration, McKinsey believes.

"We are talking about tele-phony adding 40-45 per cent to the total revenues of systems. But the incremental costs connected with offering it are not that substantial," suggests Goodall.

Instead of never breaking even on a cumulative cash flew basis, breakeven could occur in 1994, maintains Goodall, although he emphasises that pre-

... the addition of telephony through Mercury Communications will dramatically change the sums. Without telephony it looks as though entertainment-only cable TV is uneconomic. ?

ber of the DICE group and formerly of Rothschilds, the merchant bank, edds. "The new industry's chances of success depend on the extent to which companies are prepared to give it e whole-hearted managerial commitment as well as investment commitment.

"Those putting e whole-hearted effort into it lack the ecessary experience and those who have the experience are dipping their toes in," he

The DICE team believes that the more successful the early franchises are the greeter the prospects for long term success of cable. It will only take one cable channel to do badly . . . Goodail believes that the eddi-

tion of telephony services through Mercury Communications, the private sector com-petitor to BT, will dramatically change the sums. "Without telephony it looks to us as though the entertainment-only cable TV service is unecono-mic," he says.

cise forecasts are not possible. The provision of telephony also has major implications for the way cable is marketed. "Instead of selling cable as more entertainment, and in effect a luxury item which is therefore discretionary, it should be possible to market cable as a communications vehicle that is much more functional, really in line with the government view of it as the besis for a whole set of interactive services," Breene

The DICE group believes that U.S. methods of selling—such as with door-to-door salesmen— are unlikely to be successful in the UK. Breene believes that cable operators should adopt a cut-price policy initially to get cable television into different streets and then rely on "radiating references" between and neighbours to spread it.

Half price for the first year might even be justified, he be to in the short term and have lieves. "This is a case where not announced their intentions overfoll in the initial years yet."

radically changes the cash flows," says Breene, though he adds that the even larger initial investment necessary would be hard for the cable companies to

contemplate.

McKinsey also suspects that
the plans of most cable operators to market their services in tiers of channels at different prices as is done in the U.S. may be inappropriate for the UK.

There was a danger that after initial enthusiasm consumers might trade down to a basic minimum number of channels. Operators should think seriously of creating one single package, including all channels, for a set

"One of the beauties of bundling, particularly when combined with penetration pricing, is that it makes any decision to disconnect an either/or decision," maintains Breene. He believes that once cable is in a house some members of the family will like it and it will be much more difficult to decide be much more difficult to decide whether to disconnect com-pletely rather than cut out, say,

just the sports channel.

McKinsey believes a national marketing organisation should be set up to carry out research to discover the most effective methods of packaging and sell-ing cable television in the UK.

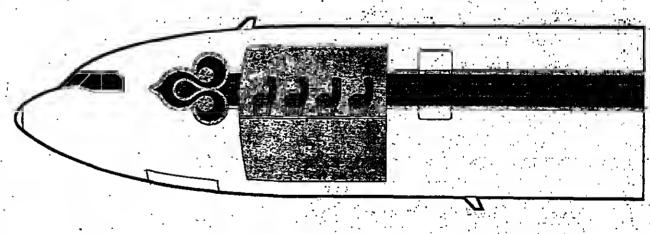
ing cable television in the UK.
Although the risks may be great, McKinsey believes that in an era of deregulation early participation in the new market seems to be important for eventual success. McKinsey is following its own advice and taking part in the hope of helping to create a new consultancy market for itself both by encouraging participation and warning of pitfalls.

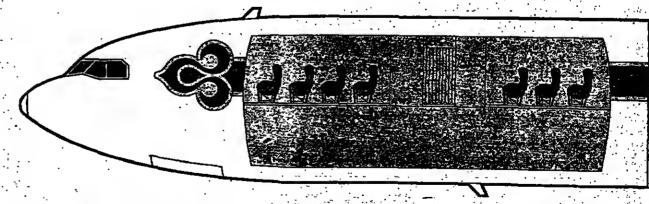
"It would only take half a dozen major companies co-operating where appropriate and then I think the industry is more likely to succeed," says Goodall.

Breene gives an even more optimistic hint of the future. We are aware of quite a number of major players who are speculatively considering whether or not cable is some-thing they should be responding

# TUNGSRAM lighting after more than 80 years of constant product development and improvement TUNGSRAM are geared to satisfy your lighting needs, optimising energy-effectiveness through the application of high quality tungsten filament, discharge and fluorescent lighting YOU ARE KINDLY INVITED TO VISIT OUR STAND DURING THE HUNGARY TODAY" EXHIBITION IN THE KENSINGTON EXHIBITION CENTRE, ABINGDON ROOM, 99 KENSINGTON HIGH STREET LONDON W8 5TD FROM 09.04, TO 13.04, 1984 for more information please contact our united kingdom sole representative Jij bustin + co 318 worple road london sw20 8qu telephone: 01/946/7707 telex: 929959

# Royal Executive Class. So popular, it's going backwards.





When we replaced first class with Royal Executive are too embarrassed to talk about. And all for just the Class on all our Asian routes, in April '83, we thought we full Economy fare.

The only thing we didn't plan on was just how popular it would prove to be.

class. (Most Asian airlines call them first class seats.) We introduced a choice of meals. Free spirits, wines and champagnes.

Free use of electronic headsets. Express check-in. Airport lounge facilities. A standard of in-flight service that other airlines than any other business class seat in the world. The

In fact, Royal Executive Class has proven to be so popular we've had to enlarge it.

So now instead of 24 seats, Royal Executive Class features 42 seats. And everyone of them goes back further



These intense feelings of a These intense feelings of a past world are so effectively realised in the exhibition English Romanesque Art 1066-1200 that It is possible to be transported in time and place and see the art of that period with new understanding.

This is a large exhibition that occupies the whole of the Ham-

occupies the whole of the Hay-ward Gallery in London where it will run until July 8. It is at will run until July 8. It is quita magnificent in every way, and the Arts Council with its advisers, particularly Professor George Zarnecki, deserve to be crowned with laurels.

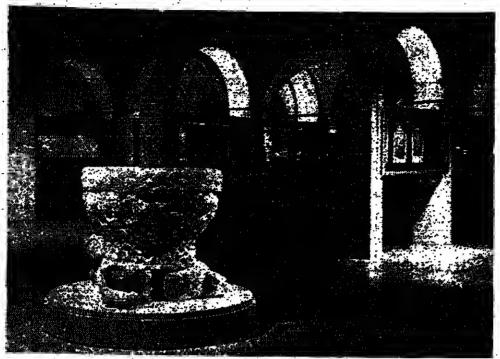
It is such a success because it is based on an important idea, not just to collect as many of the artefacts of the period and put them undar one roof, but to explore the concept that the art and architecture of this country devalored after the Neitre and architecture of this country developed after the Norman Conquest as a fusion of Roman-esque and Anglo-Saxon Ideas and produced something quint-essentially English.

To put flesh on the bones of this idea has not been an easy task. The dissolution of tha monasteries and the iconclastic activities of the Puritans

activities of the Puritans destroyed vast quantities of medieval art treasures. What we have as a record of those times is fragmentary. What we have at the Heyward is as complete and comprehensive a gathering of those fragments as

any of us will see in a lifatime.
Objects alone do not evoke a period, they need a framework. The designer of this glorious evocation's context is Paul Williams. He is a hero who has conquered tha confoundedness of the Hayward Gallery and made the place work. He has done it by utilising the qualities Architecture Colin Amery

1066 and all that



Plaited stone of the font from St Michael's, Castle Frome, circa 1140, and a glimpse of the vaulted treasury at the Hayward Gallery

of its architecture that express a solidity and magnificence of mass, and at three points in the exhibition succeeded in achiev-ing effects in the design that are

On entering the gallery you face a large dark space crossed by a long arcade of rounded arches. Through the centre arch a vista opens across the concrete ramps towards a giant photograph of the golid piers of the nave of Durham Cathedral. The pilgrimage has begun.

The two other brilliant effects are a long view down a flight of steps that lures you into the third triumph, a vaulted treasury for the display of some of the most precious items. I should most precious items. I should also mention a particularly moving experience of a quieter kind. On the top floor four stone sculptured figures face an empty lectern. Reflected in a mirror behind it ere the illuminated pages of sacred manuscripts glioting with gold. For a moment the power of Faith that fired

these artists lives and burns.

1 felt, in the Hayward, that the organisers and the designer, faced with the difficulty of dis-playing fragments of stone, manuscripts, lvories, metal-work, stained glass, textiles, seals and coins—decided to assemble them in such a way that they illuminate the spread of decorative and architectural ideas from one medium to another. An ivory crosier is placed near a capital and the intricacy of the carving of one

is reflected in the enlargement of the motifs in the other. It is possible to absorb gradually and with intense pleasure the development of the decorative complexities of early Scandinavian influenced inter-woven beasts and ribbons and see the cooler Continental influences pervading the

kingdom. Paul Williams has an inspired understanding of Romanesque architecture. He uses its elements in the display unohtrusively and elevates the fragments of sculpture and capitals in a way that makes them architecturally compre-bensible. The exhibition design -for example tha display of the stained glass from York and Canterbury — emphasises the scale of the settings that the Normans made for their smaller

Normans made for their smaller scale treasures.

Tall stone shafts and articulation of the grand walls of the cathedrals of Lincoln, Winchester, Durham and Gloucester can only be hinted at in a gallery. Here the triumphs of the masons, who cut the chevrons and the beasts and understood tha total geometry of e gigantic cathedral long before the use of full scale drawings, is staggeringly impressive.

is staggeringly impressive.
To fully understand the glories of the Romanesque it is essential to visit cathedrals and the smaller churches, like Kil-peck in Herefordshire and Kempley (for its wall paintings) and the Temple Church in Lon-don where the turning to the Gothic can be seen amongst the

Gothic can be seen amongst the Gothic can be seen amongst the Romanesque features.

The designer has suggested the magnificence and scale of the Romanesque architecture the Romanesque architecture hut it has to be remembered that our picture is a partial one. Colour was a vital part of tha interiors and sculptures and walls were brightly painted. Tha Hayward show is sober, solemn and rich. It fires tha visitor to go and see the architecture for himself but it does so by, first bimself but it does so by, first of all, firing his artistic imagination. Do not miss this exhibition—it is an inspiring triumph.

## Der Rosenkavalier/Coliseum

## Max Loppert

a higher level at every new appearance. But it is, bappily, not at all a one-woman show.

admiration.

The new Sophie, Anna Dawson, who came to notice at the Royal Northern College (and more recently on the records of Boughton's Immortal Hour), takes here a first big leap toward future stardom. This was Straussian ravishment of authentic kind—the silvery high soprano floated out at ease in long legato phrases dewy with wondarment, the top lines of dnet and trio refreshed with that special artlessness that is full of concealed artistry. Miss Dawson is no spun-sugar morsel, though; e fullness of tone at the opposite fine from Such dignified, ample Eno Marschellins as Ava June and Lois McDonail; fears, resemble flate in Marschellin's and sudden prophetic intimations light its course with volatile flashes of dramatic clour. (Fve never before believed so fully in the Marschellin's midnight stopping of clocks.)

What it seemed to lack, on Saturday, was the relaxation of style and sound that should ideally halance it. Miss Barstow has proved in previous Strauss assignments, Araheita most Dawson is no spun-sugar morsel, though; e fullness of tone at the opposite in the form such dignified, ample Eno Marschellins as Ava June and Lois McDonail; fears, consequents, and Lois McDonail; fears, and

company has assembled one of scenes Miss Barstow was the most remarkable female trios in the production's life-span, a trio assorted with a skill in this performance the trio that affords the opera's velvet-was not just a swoon of luscions not at all a one-woman show, Sally Burgess returns to Strauss duties in excellent form; Octavian is probably her best Coliseum role, for though some bigher notes still expose an occasional rawness, Miss Burgess's warm middle voice, her gift of quick, accurate, passionate characterisation, and her beautiful way of shaping English words join to fulfil almost all of the role's requirements to admiration.

Trios in the production's life-span, a trio assorted with a skill that affords the opera's velvet-contoured lengths fresh gleams of vitality. Miss Barstow was the show's first Octavian (In 1975); ahe graduates to its senior role with her mastery of "body language" intact, her intuition for limning the shape and divining the soul of each new character. It is a reading of the role at the opposite pole from such dignified, ample Eno Marschallins as Ava June

sei, though; e fullness of tone at wonderfully versatile soprano the lower end, where the can accomplish the vocal

The latest English National figurine Sophies tend to evaporOpera Rosenkavalier is interesting as a whole. That is perhaps bearing of a formidable matron a pale epithet for the first in the offing, are two of the perMarschallin of Josephine Barstow, an opera performer guaranteed tto raise things to

For the revival, indeed, the words, and in the opera's final seconds are the single began to acquire much of needed light and shade, the ability to glance points off words, and in the opera's final seconds are the single began to acquire much of needed light and shade, the ability to glance points off seconds. sound; it made real, and climactic, sense.

Any Rosenkavalier with this much in its favour is worth visiting. But there are also weaknesses that deny the whole the level of its hest pars. Dennis Wicks is the Ochs — long familiar, expert in routine, but now rather sere and savouriess. In Keith Warner's not quite complete rehearsal of the John Corley production with of the Copley production, much of the touch — Italian tenor, inn servants, and Ochs retinue are all vants, and Ochs' retinue are all examples of blunted aim (hut Stuart Kala's Valzaccht, Anne-Marie Owens' Annina, and Malcolm Rivers' police commissioner are very good). The occasion marks the ENO debut of the Vlennese conductor Friedrich Pleyer, whose account of the Score was musically in its most sympatheic passages. lts most sympatheic passages, and rather lacklustra in others; he, like Mr Warner, seems to have needed more rehearsal time.

## Romeo and Juliet/Covent Garden

## Clement Crisp

Romeo and Juliet has returned to tha Opera House repertory this season with some apparent a young women trapped by her refurbishing of costumes for tha own wifulness in the third act. principals and I would hazard, some revised lighting: the dark scenes appear darker, and as she stands with Paris Juliet on her hier is now caught in a blazing shaft of light as if the Capulet vault were getting ready for the pantomime season. On Saturaday afternoon, when Fiona Chadwick made her debut as Juliet, the score under Elgar Howarth had soma fine moments of dramatic tension and freshened orchestral balance — not since Yury Ahronovich's electrifying performances a few years ago has Prokofer's emotional purpose seemed so clear — but tha danced interpretations reflected this and interpretations reflected the capture in the secondary roles have a routine air (Stephen Sherriff's Benvolio a hrightly danced, brightly felt exception), whila the studen obsession for Romeo, and in tha latter capture in the studen obsession for Romeo, and in tha latter of the bedroom duet, with authentic gramme in the staging as it was in its opening season in Elsewhere the character is, and a handsoma Prokofer's emotional purpose seemed so clear — but tha danced interpretations reflected this and interpretations reflected the content of the arms. What is essential, and so of the missing in parformance and interpretations reflected this and interpretations reflected the substinction of the content of the content of the content of the substinction of the content of the content of the substinction of the content of the substinction of the content of the content of the content of the substinction of the content of the third of the content of the substinction of the content moments of dramatic tension and freshened orchestral balance — not since Yury Ahronovich's electrifying performances a few years ago has Prokofiev's emotional purpose seemed so clear — but the danced interpretations reflected this any intermittantly.

this only intermittently. Miss Chadwick, with her pure, today, is that beadlong, strong dancing — lovely in its security as in its clarity — sails pestousness with which Seythrough the role's demands, mour and Gable first imbued

the guest virtuoso Konstanty Kulka, Mozart's K. 218 Violin

likes intensity in his music, and

34th Symphony of Mozart, the taut panache of the opening Allegro vivace was something quita out of the ordinary, though it sounded entirely

right. Mr Kulka could not hava

wanted more alert accompani-ment in tha Mozart Concerto

(he might even have liked some-thing tamer). He dalivered the

What is essential, and so often missing in performance

intensity as Desmond Doyla'a Tyhalt (arrogant mensce incarnate) killed David Blair's ehullient Mercutio. After two decades wa may perhaps not expect that first fine careless rapture, but if Romeo is to retain its importance in the repertory it needs far bolder, braver playing than it received on Saturday.

# On the Freudian slopes of Eugene O'Neill

O'Neill'a Interlude was produced in 1928 hy tha Theatre Guild in New York, the playwright's great champion George Jean Nathan pronounced it his finest work. A 1963 Actors Studio revival found intellectual critics dubbing it the warst play ever written by a major dramatist. The drama is in nine acts and plays at the Duke of York's for five hours with two

You simply must not miss it. Not because the play is a masterpiece (it is not), nor because of its curiosity value as the piece of stage fiction that did most to popularise Freud in America, nor because it was the most celabrated play of the 1920s, nor merely because Alexander Woolcott lost a job on Vanity Fair by denouncing it before it had covered

You must see this production for the performance at its centre by Glenda Jackson as Nina Leeds (what a name!), the daughter of a New England professor who loses her lover in the First War and surrounds herself with a collection of unsatisfactory substitutes in pursuit of both self-fulfilment and a maternal role. But above

Interlude he investigates the him as nur narrative guide, unplausihility of energising the interior monologue, of showing a character at the split moment of ambiguity between saying what his doom. The elegant cadaver-

London marathons: Michael Coveney reviews Strange Interlude at the Duke of York's while-Martin Hoyle spends a Long Day's Journey Into Night at the Arts



sounds called words.

Where O'Neill's rather laboured technique might have the child she nwes the proved an insuperable obstacle, dead lover. When pregnant the director Kelth Hack and his she is told hy her mother-in-law cast turn it to positive advantage, eliding the inner and outer from Shells Burrell) that there the terms for a distinct it intention in the common of the comm

is felt and saying what is, in ousness of this portrait will fact, heard. Nina, we are told, surely mark it as one of Mr has seen the lies behind the Patherbridge's very finest.

O'Neill'a imagined milieu as young Gordon takes part in a Long Island hoat race, is given full surreal rein, with bunting and blazers and ugly raucous cheering which culminates in Nina'a husband's (James Hazeldine) eventually fatal

acting and design, and for the tactful ingenuity deployed in solving one of the most fascinating problems in the modern theatre.

On'Neill had been experimenting bravely throughout the 1920s, with tom-toms and Expressionistic techniques, with masks, with rhythms and energy of speech. In Strange Interlude he investigates the plausibility of energising the interlude at the studied artifice of control of the most from Sheila Burrell) that there is insanity in the family. Ning that there doctor who fixed her confidential downstage shuffling to the factor. Here is insanity in the family. Ning the family in the family in the family in the family. Ning the doctor who fixed her confidential downstage shuffling of feet. The play is treated comporately, musically, beautifully, sensitively.

On'Neill had been experimentation. Here is no whispering behind hands or confidential downstage shuffling of feet. The play is treated corporately, musically, beautifully in the family. Ning the family in the family. Ning the family in the family. Ning the doctor who fixed her confidential downstage shuffling warriage and passes off that corporately, musically, beautifully starts the play in a world he knew and finishes it in an aero-moderate the following as the loyal Charles for form Long Island in 1945, which appears at first to cast w

which files off to fix the charac-ters in a mythic vold of Americana, like figures in a Hopper painting. In the middla section, Nina, her bushand and Charles the best friend are plnioned in three wonderful period armchairs. With the leap in time, Miss Jackson is transformed with a manve turban and dark glasses into a likeness of Ava Gardner, and the rather strange, brittle quality of O'Neilla imagined milieu as

With Brian Cox as the doctor, she breaks through the objective soliloguy device—as much each character's invention as the playwright's to acknow-ledge her passion. I must give an inadequate nod towards Mr Cox: he has done nothing better than this for ages. This is, in short, the most fascinating, unusual and remarkable show in London.

The Janacek cycle shared hetween Welsh National and Scottish Operas, began in 1975

with Jenuja, produced by David Pountney. WNO revived

it in Cardiff last month and as usual has been quick to take it on tour, reeching Birmingham on Wednesday, conducted by

This is enything but a routine revival. The cast is entirely new, and Pountney has taken the opportunity to revise his approach in several crucial aspects. No doubt he was partly influenced in this by the decision to use the original

version of the score as pre-pared hy Charles Mackerras for his recent recording. These are the first stage performances in which Janacek's intentions

have been followed faithfully:

advertised, aggressiveness might

have been understandable in the

audience rather than on tha

face of the star as she finally strode forward to eddress her

public. Add e technical hitch that prolonged the interval, and

tha ratio of waiting-time to

music hegan to recall an even more august institution in tha

Richard Armstrong.

rider into bathos. Darlene Johnson's gracious and laughing Mary, for instance, eyes occasionally clouded by worry, initially depicts both mother and well-bred faded beauty perfectly bear rivering turing and well-bred faded beauty per-fectly, her vivacity turning chillingly to empty prattle. Elsa-where her distracted hrightness recalls Jessica in Soap. For once we feel for her husband, chafed by that gently reproach-ful foregiveness, each sweetly smiling concession flicking a barbed tail.

O'Neill's clumpingly casual and blazers and ugly raucous throwaways, carefully feeding cheering which culminates in Nina'a husband's (James Hazeldine) eventually fatal stroke.

Miss Jackson's performance is one of ber greatest, emotionally and intellectually fascinating. Addams comic Gothic.

With Brian Cox as the doctor.

Feightly recembling Fedgage.

Faintly re Allan Poe (a bedraggled hair-style reflects little credit on Reith nf Smiles), Sean Mathias intelligently uses lightness of touch to show how quick bright things come to confusion. The hitter observation on his dopefiend mother evokes laughter; an achievement in the

The matinee idol's "famous beautiful voice" has frogged; but Trevor Martin'a James convinces as the self-made man whose near-pathological fear of poverty explains his monstrou meanness; and the last act'a revelatory monologues find Mr Martin et his best.

Michael Deacon suffers from the late placing of Jamie's drunk scene in an undisguisably my bruise the others. O'Nell's long act, but his thoughtful love, resentfulness and guilt ere captured in these shifting alliances, uneasy truces and groping reconciliations.

The lightweight cast sometimes uses too loose a rein on the same accommodation is accurately accommodation.

## ECO/Elizabeth Hall

## **David Murray**

Conducted by Michael Tilson monics had to be taken on Thomas, the English Chamber trust; but Kulka carried the sions of the five original and Orchestra was in particularly thing off with confidence, and bright — even nervy — form on Friday for Mozart and Ravel. bold rubato in the pastiche manic note extended the manic note extended the works chosen for raising accelerated underway. bright — even nervy — form on Friday for Mozart and Ravel. The manic note extended beyond the works chosen for raising occelerando underway, it's conventional in this piece to rely upon sul ponticello play-ing (with bow very near the hut since Ravel's least sketches Concerto in D and Ravel's Tzigone, which in their Tzigane, which in their hridge, making a corrosive for orchestra are worth hear-different ways demand plenty snarl): Kulka found instead a ing it deserves occasional per-of aggressive hrio; even the specially dark, throaty tone, formance. There were untidy specially dark, throaty tone, musically very apt. He is one of the liveliest violinists about, and we should borrow him from the Poles more often.

Tilson Thomas gave ns Ravel's that order, for he made it as purely orchestral pieces fairly crackled. Mr Tilson Thomas draws it out with urgent gestures. The results were immediately compelling: in the Ma mère l'oye in the "commeasured, candid and moving as plete halfet" version: that's to one could wish.

finger), and with new linking fillers between them. None of

## Sir Geraint's goodbye

his farewell performances at sponsored by HTV Ltd.
Covent Garden as Dulcamara in Aftar singing in I
Donizetti's L'elisir d'omore in d'omore, Sir Geraint wil

thing tamer). He daily refer the solo part with silvery tone and the proper alegance, as well as the frank relish for the spotlight which is part of tha dramatic plan. In Trigane not finally, on June 4 which will every fearful hurdle was taken with equal success—some har-

Sir Geraint Evans will give of Wales. The evening is being Aftar singing in L'elisir d'omore, Sir Geraint will give the production originally the last performances of his mounted for him by The Royal opera in 1975.

Performances take place on in Los Angeles, where he will sing Captain Balstrode in three performances of Britten's Peter Grimes on July 11, 16

# Arts Guide

Music/Monday. Opera and Ballet/Tuesday. Theatre/Wednesday. Exhibitions/Thursday. A selective guide to all the Arts appears each Friday.

## Music

## PARIS

Katia Ricciarelli recital, Marcello Guerrini piano: Verdi, Bellini, Schu-bert, Faurė, Negro Spirituals. (Mon) Theatre de L'Athenèe (7426727) Montreal's Symphony Orchestra con-ducted by Charles Dutoir Berlioz, Stravinsky. (Mon) Theatre des Champs Elysées (7234777) English Chamber Orchestra conducted

by Raymond Leppard, Emanuel Ax, piano: Mozart, Schubert. (Mon) Salle Pleyel. (5610630) TOKYO Tokyo New Philharmonic Symphony Orchestra, conductor Seiji Ozawa; Beethoven, Stravinsky, Tokyo Bun-

## ka Kaikan. (Mon) (8282111)

WEST GERMANY Berlin Opera: a lieder recital with James King, piano Eberhard Adler: Peri, Schubert, Wagner, Strauss Prankfurt, Alte Oper: gala concert with the Frankfurt Opera Orchest-ra, conclucted by Michael Gielen with soloists Edith Mathis and

Homero Francesch: Mozart, Haydn, Schumann, Liszt, Beethoven (Mon). Rudolf Buchbinder, piano: Beethoven (Tue)

## LONDON

Scottish National Orchestra, conduc-tor Sir Alexander Gibson, Ivo Po-gorelich piano: Weber, Chopin, Rachmaninov. Royal Festival Hall (Mon) (9283191)

# Royal Philharmonic Orchestra, con-ductor Moshe Atzmon, Cristina Or-tiz piano: Rossini, Handel, Rach-maninov, Dvorak. Bartican. Hall (Mon) (638-8891) Bournemouth Symphony Orchestra, conductor Rudolf Barshai, Yefim Bronfman piano: Brahms pro-gramme. Barbican Hall (Tue) London Symphony Orchestra.

ondon Symphony Orchestra, conduc-tor Claudio Abbado, Shlomo Mintz, violin: Beethoven programme. Roy-al Festival Hall (Tue) ondon Sinfonietta and Voices, con-

ductor Lother Zagrosek: first perfor-mance of Lloyd's Mass for six voices mance of Ludy's Mass for Six votes and first British performance of an Ulrich Stranz work in an otherwise Kurt Weill programme. Queen Eliz-abeth Hall (Tue) (9283191)

## VIENNA

Tango Festival at Konzerthaus on Monday. (721211) Lizder and Aries: Michelle Berger, mezzosoprano, Roberta Cunning ham, soprano, Lucetta Marty, piano: Mozart, Brahms, Richard Strauss. Konzerthans Schubertsaal (Mon)

ona Symphony Orchestra: conducted by Gary Bertini with Dmitri Sit-kovetsky, violin: Mozart, Mahler. Musikwerein (Wed, Thur) (858 190)

Rome: Sibelius Violin Concerto in D minor (Violinist Silvis Markovici) and Brahms Symphony No 2 - con-ducted by Gianluigi Gelmetti (Sun, Mon, Tues): Auditorio di via della

## April 6-12 cademia Filarmonica Romana) Piaz-za Gentile da Fabbriano: pianist Alessandro de Luca playing Brahms, Schumann and Bartok. Brahms, Schu (Wed) (393 304)

## **NEW YORK**

New York Philhermonic (Avery Fisher-Hail): Zubin Mehta enducting, Bri-gitte Engarer, piano: Haydn, Boulez, Tchaikovsky (Tue); Zubin Mehta conducting, Lorne Munroe cello: Carter, Bloch, Tchaikovsky (Thur). Lincoln Center (874 2424)

inneon Center (6/12/25) arnegie Hall: Randall Hodgkinson, piano: Beethoven, Copeland, Perle, Chopin, J. Stranss (Tue); Ivo Pogore-lich, piano: Bach, Chopin, Prokoflev (Thar) (2477450) Merkin Hall (Geodman House): Abel Carlevaro, guitar recital: Villa Lobos, Torroba (Mon): Berenice Bram-son, soprano recital: Britten, Wolf, Rachmaninov, Weill, Bramson (Tue). 67th W. of Broadway (3628719)

## WASHINGTON

National Symphony (Concert Hall): Leonard Slatkin conducting, Yo-Yo Ma, celic Rouse, Elgar, Franck (Tue, Wed, Thur). Kennedy Center (2543776)

## CHICAGO

Chicago Symphosy (Orchestra Hall): Sir George Solti conducting, Eunice Lee, violin: Berlioz Paganini, Chaikovsky (Thur). (4358122)

## Jenufa/Birmingham Hippodrome

## **Andrew Clements**

previously opera companies have had to rely upon the edition of Jenuja prepared in 1916 by tha conductor Karel handling of the score. Kovarovic which "improved" the composer's orchestration, in the new scheme of things the role of the step mother has been most radically revised. Her aria of self explanation and justification which cuts through the dancing in the first act has made many minor cuts to tighten the action and pro-vided an ending more conven-tionally theatrical than tha heen restored (though Janacek original bald, downbeat close. himself had dropped it from his ability to make dramatic points final version) more than com- with the merest physical inflec-As anyone who bas heard the Decca records would expect, the experience of hearing all tha excisions opened out, the orcbestral sound purged of its late romantic veneer and returned to pungent muscularity would be ample justification alone for tha enterprise. But WNO hava

ntterly surefooted and idiomatic fierce climax in the second act handling of the score. fierce climax in the second act hut now carries an undertow of sympathy with it. Some of her lines in the English translation lie awkwardly across Janacek'a phrases, and Miss Cannan man-ages them with great edroimess and dramatic point. Miss Field has the priceless

pensating for its dramane awk-wardness by the rounded depth quite magnetic. Her transformaof character it affords to the tion from the lithe, physical rest of the opera. Miss Cannan optimism in the first act to is now able to bring Kostelnicka statuesque austerity and resigno believable life, avoiding nation in the third is marvel-shrewish caricature and presant-lously managed, leaving in her gone much further and proing ber as a woman deeply final duet with Laca a tantilising players to
duced a quite spell-binding scarred by an unhappy amblguity that chimes perfectly with gre
piece of theatre, plyoted about marriage, ready to move heeven with the understatement of the
Phyllis Cannan's Kostelnicka and earth to prevent her foster closing music. Every one of her evening.

and Halen Field's Jenufa, and daughter going the same way. words is perfectly audible, for underpinned by Mr Armstrong's She is still able to generate a she has the power to ride over the roughest orchestral textures. It is a thrilling portrayal, of endless fascination. Around these strong portraits

is assembled a finely drilled cast: a gauche, impetuous Laca from Paul Streathern (a late replacement) a flamboyant, callous Steva from Arthur Davies, a sombre Foreman from David Gwynne. As the grand-mother Menai Davies is a perfectly judged analogue in Kostelnicka; there is a finely observed pair of cameos from Kenneth Pugh and Anne Morgan as the Mayor and his wife. Mr Armstrong drives his orchestral players hard, but they respond with great reserves of tonal power. In all, a memorable

# Songs from the Front/Warehouse

## Martin Hoyle

Considering the show started quarter of an hour later than Covent Garden area; though in fairness Elaina Loudon is generous with ber encores.

With ber broad-faced, roundcheeked vivacity she looks like a radicalised Katie Boyle. Backed by three abla musicians on various permutations of flute, saxophooe, percussion and keyboards, her singing ranges from thinnish if distinct soubrette through full-throated balladry

to her most effective weapon, punchy and pointed speech. Ms view of their subsequent activities of their subsequent activities. A restrained song about Loudon's songs are all to varying degrees politically committed, concerned much with racialism and the arms race.

Her opening number draws paralleis between sexuality and military armament. 1 took its forlorn, mutually comforting couple to symbolise President Reagan and Mrs Thatcher, but

lave the spectre of Weill with the basics.

a bright and busy day suddenly ended by silver missiles in the sky finds her at her strongest, heautifully backed hy Andy hand. No authors are credited in the slip that does duty for a programme. If the Donmar management want (I know they do) to be treated as a West End they should start with the hasics.

# **FINANCIAL TIMES**

BRACKEN HOUSE, CANNON STREET, LONDON EC4P 48Y Telegrams: Finantimo, London PS4. Telex: 8954871 Telephone: 01-248 8000

Monday April 9 1984

# Thatcher's Irish test

Ireland Forum—giving the views of the main Irish political parties on the future reletion-ships between London and Dublin and between London and Dublin and between the republic and Ulster—is due to be published this week. Whatever the report says, there can be no doubt that the next move lies with Britain.

The Britisb Covernment indeed is facing a fundamental choice—whether to continue a policy that has achieved at best containment over the years and promises nothing better for the future, or whether to reassess the policy completely. The report of the forum should provide an opportunity for the

Preliminary leaks suggest that the report will contain a note of realism: e recognition that the economy of the South is no longer booming and thet that of the North is decaying. There can be no question of the republic taking on Britain's role of economic life-line to Ulster even if that were politically feasible, which it is not. It is also suggested that the southern politicians, as well as those of the mainly Catholic Social Democratic and Labour Party in the North, bave concluded, bowever reluctantly, that unification is out for the foreseeable future.

If so, that is a welcome development and it should form the basis on which British policy can be reviewed.

## **Passivity**

For the last decade, policy has consisted of seeking to con-tain the violence and enhance security, the occasional attempt at restoring some form of devoived government and the odd summit meeting with Dublin. It bas got nowhere. Meanwhile, the Provisional IRA bas advanced to the point where it has become a potent political as well as military force, contesting elections as well as planting bombs. It has become more of a threat to the stability of the South than it ever was to Britain.

Policy has also been conducted with a passivity bordering on carelessness. At no stage bas the Irish question been at the top of the British political agenda. That has to

There should be two starting points once the forum report is published. The first is that there can be no question of British withdrawel from Ulster something resembling

leading political parties in the republic and their leaders.

The reason is that there can be no chance of substantially improving relations between North and South until there is first an improvement in relations between the two communities in the North. It is in the interests of the republic to acknowledge that fact. It means yet more co-operation with the British on security. It means encouraging the SDLP to take its place in the Northern Ireland Assembly so that there can be some possibility of Ireland Assembly so that there can be some possibility of devolved government. Above all, it means a public commitment by Britain and Ireland to work together to resolve present problems. Future problems, such as the relationship between North and South, can be dealt with only when the North is at peace.

## Unification

For the Irish politicians the will involve firmly turning their backs on the IRA and an abandonmant of that policy of silent complicity with its activities which is so often close to the surface of Irish politics. It will mean admitting that unification is at best a hope for the future is at best a hope for the ruture rather than a present aspiration. There are tasks for the British too. Security policy has not always seemed as evenbanded as it might be. It is necessary to stand up to the things among the Loyalists as well as the IRA. It may be recessary to call the hint of necessary to call the hluff of some of the more extreme Loyalist politicians who talk nonchalantly about an inde-pendent Ulster and days of pendent Uister and days or action. The Conservative Party will have to be ready to take on Mr Enoch Powell and some of the Loyalists in its own ranks who constantly snipe at Mr James Prior, the Secretary of State. The aim must be to be seen to be offering a fair deal seen to be offering a fair deal to the minority community. Yet, perhaps the biggest test of all lies at bome. Is the Prime

Minister willing to take it on? Mr Prior would be normally coming to the end of his time. given the mental and physical strain that his job involves. He remains the best man for the task, though Mr Michael Hesel-mine would be a possibility. Whoever is Secretary of State, however, can only move on to new policies if the Prime Mini-

ster is fully behind him.

Mrs Thatcher has to decide in the next few weeks whether to make the Irish question a priority and to attach her personal authority to the search reaceful conditions is restored. She could do it magnificently. The second is that that point It would be a tragedy if she must be fully accepted by the

Stock Exchange relaxes

NEW PHASE begins today in the London

securities market as the outlines of what life could be like in the future for British stockbroking

Some of London's largest stockbroking firms and influen-

tial market makers or stock-

jobbers are starting the opera-tion of new international dealing companies as tight controls on trading in overseas securities imposed by the Stock Exchange on the market's firms are relaxed.

At the same time commis-sions on transactions carried

out on deals in overseas securi-ties will no longer be fixed in relation to a minimum commis-sion scale imposed by the Stock Exchange. This could offer better deals to the large

Until now, institutions bave found trading overseas through British securities firms

extremely cumbersome. Big
American investment bouses
and Japanese securities firms
with integrated services beve
been able to offer a faster and

more efficient service. Today's reforms are designed to redress the balance in favour of the UK brokers and jobbers—but the

changes are only a first step towards putting them on an

These changes coincide with a mejor upbeaval in the London stock market brought about by an agreement last summer be-tween Sir Nicbolas Goodison, the

Stock Exchange cheirman and Mr Cecil Parkinson, then Trede and Industry Secretary.

The Stock Exchange agreed

to implement reforms which

would allow greater participa-

would allow greater participa-tion by outsiders in its regula-tion and the dismantling of its minimum scales of commissions on securities transactions by the end of 1986. In return, the Government agreed to exempt the Stock Exchange from the effects of restrictive practices

legislation. Protracted litiga-tion between the Stock Ex-change and the Office of Fair

Trading was brought to a balt.

The agreement will mean a much more competitive environment in the London market

with greatly increased participation by foreign financial groups.

However, the plans for inter-national dealerships were under consideration before the

Impetus from

relaxation of

last summer.

exchange controls

equal footing.

overseas trading rules be like in the future for British stockbroking and market-making firms take shape. This morning London securities firms take the first steps in developing structures which will allow them to compete internationally with powerful overseas rivals.

Some of London's largest

# The fight to win back foreign **business**

John Moore, City Correspondent, reports on today's important move in reshaping the London markets: the launch of international dealerships

vestment was being direc-ted straight into the hands of the likes of Merrill Lynch, where the research, local knowledge, and fiexibility to deal, gave them the edge," said one Stock Exchange official. This concentrated the Stock Exchange's collective mind.

The rules for dealing in international securities have been relaxed gradually by the Stock Exchange in the past few years, but until now the way in which hrokers and jobbers could trans-act large amounts of business in overseas securities was through rule 60 of the Stock

Under this rule, the Stock Exchange permitted companies to be created by its member firms which could then compete on equal terms with local securities firms in overseas markets. The rule 60 company is a member of a foreign stock exchange or trading associa-tion—not the London one— and follows the rules of those

momentous developments of The rule 60 broker company is recognised that Stock Exchange and agent in the overseas firms needed a set of rules market when acting for a which allowed them to take foreign client. But when acting more advantage of foreign for a British one, he can only business, which was drifting act as agent, passing on order away from London firms to the other lands and agent and order the other lands are a second order. away from London firms to other market makers. The international securities houses with London offices international securities houses with London offices, which offered a more flexible service. The debate gained fresh impetus once exchange controls were relaxed in 1979

This produced a sharp rise much of this. Firstly, the inter-in institutional interest in national dealerships will be investing overseas. In 1978 members of the London stock in market.

Secondly, British stockbrokers will be allowed to act as prinand investment in overseas will be allowed to act as prin-equities at £459m. By 1982 cipals and jobbers will have the institutional investment over-seas had climbed to £2,92bn members of overseas stock ex-

pared with its investments changes but with the ultimate in UK equities of £2.47bn. customer for a foreign stock.
"All of that overseas in This will ensure a more flexible

service.
However, the Stock Exchange has baulked at a total liberali-sation of the system, which would involve breaking down the present barriers in London between principals, who are able to take on stocks on their books, and agents (or brokers) acting for clients. International dealers will not be able to play both roles, as their competi-Tha fusion of both the role

of principal and agency work— known as "dual capacity"— bothered the Stock Exchange as it feared that potential conflicts of interest would be created. Since then, however, the Stock Exchange has become resigned to the fact that the separation bers can hold up to 49 per cent

of the two functions—known as Among those firms which single capacity—cannot be have set up or announced intenmaintained in the more com-tions to start international



dealerships are Cazenove, Hoare Govett, Grieveson Grant, Wil-liams de Broe Hill Chaplin, Quilter Goodison, Bisgood Bishop, Smith Bros, Kitcat and Aiften and W. Greenwell. mercial environment it faces as a result of reform.

As a result, a considerable lobby is now building np among members to allow the international dealerships to act as both principal and agent. "It is important for an international dealer to operate in a dual capacity way and compete with rivals. I bope that the council will see that it is not necessary

will see that it is not necessary
now to maintain single capacity," said Mr Stephen Raven of
Akroyd and Smithers, one of securities industry has to bethe leading London stock come fully integrated in the International dealing com-panies are incorporated with limited liability as subsidiaries of member firms. A minimum capital of £500,000 is required

of the shares.
Among those firms which



Sir Nicholas Goodison, Stock Exchange chairman

The dealing room at Akroyd & Smithers

Some firms are going through the motions of forming an international dealing mech-anism without any conviction that it will serve much purpose.

services that it offers, the whole thing is an irrelevancy. It is nothing more than a public re-lations stimt," a stockbroker remarked sourly.

"I think the international

dealerships have a limited life

In spite of that initial allow securities firms in London reaction, the firm says. "It is to prepare themselves for dual essential to take advantage of capacity and the arrival of full international dealership in negotiated commissions. The London which will lead to dual immediate question is whether capacity. It will prove an ideal the move can achieve its objec-numery for learning the dual tive of winning business away capacity system and methods." from competitors at a time Hoare Govett is forming its when the Stock Exchange rules international dealership with have not been wholly relaxed

out the direct participation of Security Pacific, the U.S. bank,

Security Pacine, the U.S. bank, which has a 29.6 per cent stake in the brokers. The subsidiary wift be 160 per cent owned by Hoare Govett.

Cazenove, with a reputation as the City's most aristocratic broker; raised its profile recently with the announcement of an international dealers. ment of an international dealer-ship but again without any outside involvement. "We do value our independence. If we did bring anyone into the inter-national dealership it would

compromise our independence and freedom of action in the future. We could see positive conflicts of interest if there were outside involvement,"
observed senior partner Mr
John Kemp-Welch recently.
Like other firms starting out
in a modest way in the first
instance, Carenove is to concentrate on linking up buyers

centrate on linking up buyers of overseas securities and sellers in matched deals, a route which requires limited capital compared with a market making role.

At Akroyd & Smithers, the stockjobber, the plans are more ambitious. Mercury Securities, the parent company of merchant bank. S. G. Warburg, has taken a 29.9 per cent stake in Akroyd, and Akroyd shortly after formed a link with Rowe & Fitman, the stockbroker. The latter partnership is designed to develop an international dealing joint venture in which both parties would contribute a combined £17m worth of capital. would contribute a combined film worth of capital.

"This will not go live until October 1." said Mr Raven, "when we have new office space and our telephone communications system is in place. But

to take advantage of the new rules we have decided to form a new company 100 per cent owned by Akroyd as a short-term measure and that will go live on April 30. All dealing in overseas securities will be transferred to the new company."

At Strange Transcull, in which At Strauss Turnbull, in which Hambres Bank has just acquired a 20.9 per cent stake, a three-way link-up between Strauss Societe Generale, and Hambros has been created for

We'll let other people make the mistakes' .--

an international dealership with marked sourty.

"I think the international the international the international ball says it is "not in a hurry, which is their present concept," allow of capital. Strauss Turns bull says it is "not in a hurry, we will the international dealerships their of the international dealership with following their present concept," are international dealership with following their says it is "not in a hurry, we will the international dealership with following their says it is "not in a hurry, we will the international dealership with following their says it is "not in a hurry, we will the international dealership with following their says it is "not in a hurry, we will the international dealership with following their says it is "not in a hurry, we will the international dealership with following their says it is "not in a hurry, we will the international dealership with the internation

se Smithers. "You have to remember that the dealerships began to come on stream before we had any idea that we would be exempt from the restrictive practices legislation."

Even so, a significant number of firms are determined to exploit the present opportunities. "You cannot afford not to be doing what the Stock in the hocker at Grieveson Grant responsible for running his firm's international dealing subsidiaries were thought of it was believed that none of the major firms would form subsidiaries because they already had offshore yellow of that initial spite of that initial characteristics."

What will it mean for the institutional client? "If I had elient?" If I had elient? "More that who wanted to dispose of 150,000 Western Mining stares and I could place only 100,000 I would be able to take 50,000 of the stock I couldn't place on to our books whereas the head of the past the 50,000 shares might have had one broker.

There is still an enormous selling job to be done with the institutional client? "MI I had elient?" If I had elient? "More that who wanted to dispose of 150,000 Western Mining to 100,000 I would be able to take 50,000 of the stock I couldn't place on to our books whereas might have had to be left with the client." Said one broker.

There is still an enormous selling job to be done with the institutional client? "MI I had elient?" MI I had elient? "MI I had elient?" If I had elient? "More that who wanted to dispose of the elient? "More that who wanted to dispose of the elient?" If I had elient? "MI I had elient?" If I had elient? "MI I had elient?" If I had elient? "MI I had elient?" If I had elient? I had the client? "MI I had elient?" If I had elient? I had the client? The past the follows whereas and I could place on to our books whereas the had the had

# Patent licensing and competition

OF ALL the countries forming for legislation provided that the the European Community, the drafters are willing to listen UK probably bas most to lose and make e few more adjustby a legal regime bostile to the commercialisation of innova-tion and industrial develop-ments by means of patent licensing. The export of British know-how makes an important contribution to the country's invisible earnings. Unfortunately, the competition rules of the Community, or more pre-cisely their application by the European Commission, are inspired by a fear that every form of co-operation is potenti-ally anti-competitive. Almost every licensing agreement of some importance is caught by the mesb of the EEC compet-tion rules and has to be noti-fied to the Commission with a request for cleerance or exemp-

As none of the other member As none of the other member countries matches British involvemant in the export of technology, the Commission was unprepared for the avalanche of notifications which descended on Brussels after the UK's accession. Twelve years later, it is still unable to copa with a backlog of some 3,000 notifications. A reguletion which would exempt all licensing agreements satisfying certain specified con-ditions was the obvious solu-tion from the beginning. The Commission drafted one in 1976, but it did not meet the needs of industry and was widely regarded as inedaquate. The British Government declared that the regulation would make things even worse, and blocked the project.

## Unrealistic

However, the Commission has never given up the Idea com-pletely and the draft which It has now produced—but not yet officially published—is an improvement. It has dropped the most objectionable conditions which would have limited the exemption in territories with fewer than 100m inhabitants to five years at the most and excluded from their benefit companies belonging to groups with an annual turnover of more than £550m. The new proposal seems to provide a good basis

ments necessitated by the realities of business.

realities of business.

It is unrealistic to insist, as the Commission does, that royalties on know-how licensed in connection with a patent must not be required after the patent has expired or has been invalidated. This secular empays invalidated. This would remove any incentive to license patents which only bave a short time to live, or which can only be defended by the patent owner by the expenditure of vast emounts of money. The second weakness of the proposal is that it does not ellow for protection It does not ellow for protection against parallel imports in the against period—say five years—during which the licensee tries to establish production and break even: The need for this is not only pleaded by businessmen but is also recognised by judges in competition disputes.

## Escape clause

The Commission offers an The Commission offers an accelerated procedure for dealing within six months with notifications of licensing agreements which, although not satisfying the conditions of the block exemption completely, come near to it. Such vagueness is bound to lead to see ness is bound to lead to con-fusion, and there seems to be no reason wby the Commission should not apply the acceler-ated procedure to all notified licensing agreements.

It should also remove the

threat of invalidation of the exemption by a single refusal to supply within the licensee's territory and by cross-licensing, which is often the only possible solution of potent disputes. The solution of patent disputes. The value of the draft is also much reduced by its general escape clause which would enable the Commission to withdraw the benefit of the block exemption whenever it thinks that an agreement, though satisfying the requirements of the regulation, has "effects which are in-compatible with the EEC com-petition rules." In short, the Commission, which always asks industry to trust it, should also show a minimum of trust to in-

## **Newbigging joins MacGregor** team

An unexpected change in careers for David Newbigging at the ripe young age of 50 might be described as: out of the quick frying pan and into the fire.

institutional investment in British equities stood at £1.92bn

He served for 30 years in Hong Kong with the trading group Jardine Matheson, be-came chairman (or taipan) in 1971, and was finally ousted by Simon Keswick last year after a battle with the Keswick clan. Today be joins another chairman under pressure. He be-comes a part-time member of

Ian MacGregor's National Coal Board in London. As one of the five part-time nembers of the board be will serve for three years initially but his term could be re-

newed.

MacGregor has considerable respect for the role of part-time, non-executive board members. As a part-time member of the BL board be exerted personal influence in the late 1970s npon the stand by the management of the car group against union militarey.

militancy.

Newbigging is seen as a welcome reinforcement to the stern MacGregor line during



must know I got the job by lying about my age'

# **Men and Matters**

partment

current NCB board-room discus-Newbigging was born in China and joined Jardines in 1954. Although be left the "princely Hong" as Jardines is known in Hong Kong, before he was 50 be was already one of the company's longest-serving top men.

Coal mining will not be his only concern in London. He has been made a non-executive dir-ector of Provincial Insurance from April 25, and is also to join the board of Provincial join the board of Provincial
Life Assurance Company. He
is a member of the International council of Morgan Guaranty Trust company, and he
recently rejoined the board of Rennies Consolidated Holdings of South Africa.

That South African job could cause friction between Newbigging and miners' president Arthur Scargill in view of the latter's implacable hostility towards any links with South

## Don't ring us . . .

I brought you the news last week of abortive attempts to establish a facsimile transmis-sion link between the Depart-ment of Trade and Industry and the FT.

Now a mole tells me of e further hiccup in Whitehall's efforts to put into practice the "modernise or fossilise" philosophy preached by information technology minister Kenneth

His department's press office, as well as lusting for an np-to-date facsimile machine, bas also words to describe current feellong yearned for a modern push-button telephone system to replace its old-style dial phones. A short while ago British Telecom was invited to send round a salesman who offered them just the thing—a small International Rugby Board (a electronic key system bristling cabal of eight nations which with advanced features. Smiles soon turned to frowns, game). however, after expert investiga-

tion revealed e fatal flaw.

The system could not be pressed into government service because it lacked the necessary British Telecom approval for use with the kind of apparatus installed elsewhere in the de-

Cecil Parkinson, the former Trade and Industry Secretary

The whole matter is, as they say, currently under review.

## Sweet revenge

Red faces on the London sugar market-one of the brokers, Woodhouse Drake Kay made a mistake and included a highly confidential telex from its New York office with its routine market report circulated to clients and competitors.

Their man in New York was in good, racy form. He not only supplied colourful comments on the company's strategy and dealings in world sugar, he also had some pungent comments on others involved.

One competitor, he said was "hoping to nail us to the wall."

Another be referred to as "these vultures." But perhaps the biggest gaffe was to describe representatives from a leading sugar exporting nation in un-flattering terms, Competitors are gleefully passing on the remarks.

In New Zealand Rugby football is a religion, and its gods are the tough men who wear the All Black Rugby jersey.

ings among a large body of New Zealand players and supporters. So high are feelings running that there is a move by players, supporters, and some top Rugby officials to break eway from the

As cynics may have already concluded, money rather than

the game is at the bottom of the

rumpus. Stuart Wilson, aged 29, last season's All Black captain, and already a folk hero as a wing threequarter of legendary ability, has written a book. None of the Rugby afficionados has read the work yet: it has not even been published. But the International Rugby

Board has flatly rejected a call from New Zealand to lift the ban on book royalty payments so that the national hero can enjoy the fruits of his literary labours. Wilson has amounced his retiremment from the game and believes he is entitled to accept the proceeds of the book. But the rules are explicit that lie will lose his amateur status if

The move to quit the board is backed by the expectation that New Zealand would continue to have plenty of Rugby friends. In the club bars they are com-forting themselves by saying that South Africa and Australia would almost certainly continue playing with the All Blacks.

## Sky high

Can a mere mortal comprehend the enormity of the U.S. national debt. LHW Futures of London has passed on some figures worked out by the American Bankers'

Association which strive to put the matter into perspective.

By next year the debt, if, stacked up in paper money, would comprise a pile of \$1,000 bills stretching 120 miles into And the bankers add that by

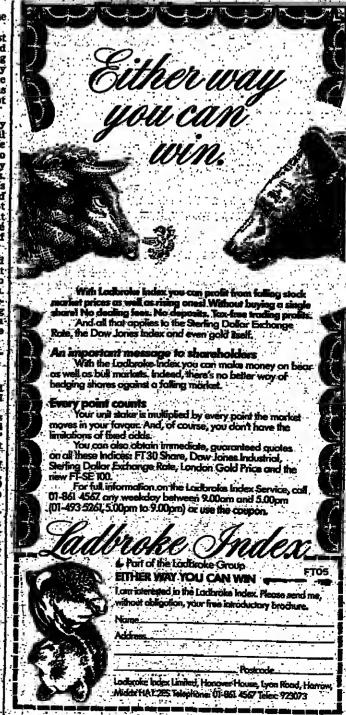
the end of President Reagan's first term the debt added under his administration will have exceeded the cumulative debt of all previous presidents.

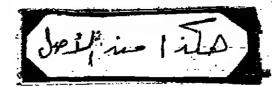
Now that's style

## Mean time

Did you hear about the Andorran odd-job man who was asked what his average weakly income was? "I couldn't say," be replied. "the average varies

Observer





# A Swedish power battle

By Kevin Done, Nordic Correspondent, in Stockholm

again around the heavens of Swedish industry. An intricate power game is being played for Europe. Few doubt his tactical shills because at Volvo power game is being played for control and influence at Volvo, the Nordle region's biggest industrial corporation.

Much of the battle is taking place behind the closed doors of the boardrooms of some of the country's major corporations and banks, but the sounds of the fray are reaching the outside world.

under the leadership of Mr Pehr Gyllenhammar, Volve has always prided itself on standing aloof and independent from the power constellations traditionally associated with the country's two major banks, Skandinaviska Enskilds Banken and Svenski Handelsbanken.

For several months, however,

For several months, however, that independence has appeared to be coming under increasing

to be coming under increasing threat as the so-called Wallenberg group, of which S-E Banken is a part, has bought aggressively into the company, in the process putting together the largest single block of voting shares in the group.

The latest sign of this chifting power balance came a few days ago, when Mr Gyllenhammar, since last year both Volvo chairman and group chief executive, suffered an unprecedented days ago, when Mr Gyllenhammar, since last year both Volvo chairman and group chief executive, suffered an unprecedented defeat at the hands of his own board, which vetoed his plans for a \$100m share issue in the U.S. in June.

Doubts are expressed privately in Swedish financial circles about Mr Gyllenhammar's ambitions to establish

His handling of the heavily loss-making oil trading sub-sidiary, Scandinavian Trading Company, bas come in for serious criticism—STC losses serious criticism—STC losses politicised not least by issues and provisions cost Volvo more such as the introduction of wage than SKr thn (£91m) last year and Volvo bad to pump in SKr 760m in new capital to

keep it affoat.
At the same time Mr Gyllenhammar has placed his own hardly fits securely.

prestige heavily on the line as leader of two groups of ton leader of two groups of ton formal group exists—takes furopean and Nordic business- in many of the heights of

ability, however.

In a move to stalemate the latest Wallenberg powerplay, Volvo has established a new volvo has established a new alliance with the one major source of financial and industrial power in Sweden that is big enough in its own right to neutralise the influence of the Wallenberg federation, namely Skanska Cementgjuteriet. Skanska is the country's biggest skanska Lementgjuteriet, Skanska is the country's biggest construction group, but it is also one of Sweden's largest and richest investment companies with an extensive portfolio of stocks and moments.

stocks and property. Most importantly, it is also Most importantly, it is also willing to exercise its muscle, as witnessed. Inst year: when it steam-rollered its way into control of Sandvik, the special steels and tools group, after becoming dissatisfied with the way the company's affairs were being conducted.

The current battle for power around Volvo has arisen in the vacuum left by the death of some 18 months ago of Mr

circles about Mr Gyllenhammar's ambitions to establish
himself as a major public figure
on the world stage and an industrial statesman, rather than
concentrating on running the
affairs of Volvo.

His handling of the heavily cry from today's far more uncertain climate where relations between government and industry have become heavily

earner funds.

Mr Gyllenhammar has been more than ready to assume the mantle left by Marcus Wallen-berg, but it is clear that it





Volve chairman Pehr Gyllenhammar (left), Marcus Wallenberg, the late Swedish industrial leader (centre) and his son, Peter, who now leads the Wallenberg emp

Swedish industry and banking, in the line of the line held by two investment com-panies, Investor and Providen-tia.—Mr Peter Wallenberg, Marcus'a son, is chairman of both—as well as by a number of allied trusts and pension funds. The same names turn up again and again on the various boards.

Volvo has traditionally lived outside this sphere, but in 1982 in the last months of Marcus's tife it was allowed access to the federation—with the old man's imprimatur—and there were strong signs of a rapprochement emerging between Volvo and the Wallenberg group.

Volvo moved in to acquire 25 per cent stakes in both Atlas-Copco, the engineering group and in Stora Kopparherg, the forest products concern. The industrial logic of these investments may be questioned

his working life, since 1970 as chairman. Last year Mr Gyllenhammar also moved on to the board of Storakopparberg where Peter Wallenberg was already vice the storakopparation. vice-chairman.

Initially there were strong doubts about Peter Wallenberg's ability to step into his father's shoes, but over the last year tha Wallenberg camp bas regrouped under his leadership in its traditional sphere of in-

and Provinenta bought control
of a block of shares with more
than 5 per cent of the voting
rights in Volvo. Together with
other purchases and existing
shares, interests associated with
the Wallenberg group have
built holdings that could confor Volvo, an automotive, built holdings that could conenergy and food group, but they brol 15-20 per cent of the Volvo Several weeks ago Protorp, an ambie marked a definite shift in the stock, the largest single voting investment company dominated unlik Swedish power game. Allied block. "They have been ready by Skanska, bought np 240,000 long.

Most piquantly, the chairmanship of S-E Banken itself fell vacant as these share trans-actions devoloped. The main rival candidates were Pehr Gyllenhammar and Peter Wallenberg.

Each lacked the overwhelming strength to overcome the other, and as a result they stale-mated. The chairmanship went instead to the banking professional, Mr Curt Olsson, the bank's deputy chairman, an and has started to reassert it-self more strongly, challenging acceptable neutral choice for the upstart Volvo's wider role both camps. At Volvo, bowever, Mr Gyllenhammar bas not been sitting Idly by watching the Wallenberg counter-attack gnaw In August last year Investor Wallenberg counter-attac and Providentia bought control away at his power base.

In recent weeks he has begun to forge the new alliance with Skanska, designed to bold in check the Wallenberg interests and ensure Volvo's — and his own - scope for independent

shares in Volvo, involving nearly 2 per cent of the voting rights and making the company one of the 10 largest share-

Late last week a new package of moves further cemonted the hudding Volvo/Skanska elliance. Volvo itself purchased a 21.3 per cent interest in from Skanske and Euroc, the building materials

In exchange Skanska and Euroc have acquired 9 per cent of the equity in Sonessons bitherto an indopondently managed subsidiary of Volvo, which beld 51.8 per cent of the equity. The 9 per cent stake is worth about SKr256m (£23m) at current markot valuo.

Sonessons has emerged as one of Sweden's fastest growing companies with a turnover that jumped from SKr 500m to SKr 4bn in five years. Originally in light engineering, It has branched out in a series of acquisitions into pharmaceuti-cals and medical oquipment.

in coming months.

Beyond the various equity links, Volvo said that it is also planning to co-operate with Skanska in industrial projects

Investment bankers in Stockbolm see the moves as very smart footwork by the Volvo chairman. "The Haak/Gyllen-bammar axis (Bengt Haak is chairman of Skanska) is one that not even Peter Wallenberg would dare to challenge," said ono financial analyst.
For itself, Skanska also sees

the alliance as a way of strengthening both its own and Volvo's freedom of action.

"Volvo is a good and stable company," said Mr Birger Lewhagen, managing director of Skanska, "but in addition we have similar attitudes when it comes to our companier."

Lombard

# The great jobs puzzle

By Samuel Brittan

puzzling. Whatever the fundamental reasons which have caused the unemployment average to rise from one business cycle to the next, one would expect unomployment to fastor than expocted. The latest fastor than expocted. The latest feetings are therefore the complex of the comp fall, or at least level off during the upturn phase.

For a time last autumn it looked as if it was happening. In October and November seasonally adjusted unemployment did indeed fall. But it started to rise again in December Taking the whole resided. started to rise again in December. Taking the whole period since September, which has been clear of the effects of recording changes, the average monthly rise has been just over 10,000—which is still enough to add it per cent por annum to the unemployment rato.

To make matters worse, vscancies which bave often proved a better indicator and bad oarlier been rising rapidly bave fallen by 18,000 from the peak of 167,000 which they reached in the autumn.

the autumn.

ranched out in a series of the autumn.

acquisitions into pharmaceuticals and medical oquipment.

Volvo is planning to reduce its own share to only 25 per cent in coming months.

Beyond the various equity links Volvo said that it is also bave been affected by the ebb and flow of people from com-munity programmes. Moreover, the seasonal corrections may not always be right. But not always be right. But it would be wishful thinking to suppose that all that is wrong is statistical error, which may after all point in either direction.

The continuing climb in unemployment is all the more puzzling because of all the puzzling because of all the signs, for instance, in the latest CBI report of the economic recovery hroadening out and of the greater likelihood of the Treasury's 3 per coordinates. Treasury's 3 por ceot growth estimates being exceeded than of its being missed.

THE continuing rise in UK no ovidence that real labour unemployment during a period costs, as experienced by em-of vigorous economic recovery ployers, have risen over the last is not only distressing, it is also year or two. The element that

estimate suggests that output per bead has been rising by 6½ per cont per annum in manu-facturing and perhaps 2½ per cent in the whole economy; and the figures could be underestimates because of the defici-encies of production-based

To keep unemployment stable output has to riso by at least as much as the sum of productivity increase and the rise in the civilian Isbour force. The latter is expected to rise this year by 160,000 or 0.8 per cent of employees — a tomporary peak. So if recent productivity trends continue, output would have to rise by about 3 to 31 per cent for unemployment to

The Treasury originally expected productivity growth to slow down after the burst in recent years. If it bas not done so, and if indeed it has been at a higher rate than officially ostimated, this would be some upward creep in unemployment.
But this may not bo all. It is
possiblo that the 80,000 rise in
employment between March
and September 1983 came partly
from outside the ranks of the
partitional unemployed. This registered unemployed. This would be likely to be so, if the majority were women, as some ovidonce (in the sbsence of full data) suggests.
Thore is no space here to

suggest policy. But it may be that the economy can take a monotary demand than pre-viously assumed without inflationary consequences. If, as many City commentators sug-Lewhagen, managing director of Skanska, "but In addition we have similar attitudes when It comes to our companies' independence from the hig ownership groups."

The power hattle may now return behind closed doors for a while, but given the apparent ambitions of both sides, It is unlikely to stay there for long.

of Its being missed.

The saloon har explantion is gest, the Budget and monetary policy are more atimulative that officially sdmitted, this do anything other than take on this refusal might be that wages at the extra demand does not leak into higher wages at the expense of jobs. It is for this cincluding the risks of having very reason that the Chancellor to pay rednadancy money) are too high. While this may be so as a general tendency, there is

## Service costs of be its prime asset. Sunday trading ployed in retailing who should be its prime asset. Harry Shepherd. 49 Wellington Street, WC2. Sunday trading

From the Director of the

Oxford Street Association Sir,-Colin Paterson of the Retail Consortium is by no means unrepresentative of the trade's views on Sunday trading, as Mr Fletcher of ASDA suggests in his letter of March 27. This association in its evidence to the Home Office onquiry, remarked on its serious concern about the implications for retailing's infrastructure, which are glossed over or ignored by Mr Fletcher.

The increase in trade for those who open on Sundays in-Scotland, which has no relevance to the major English conurbations, or for those elsewhere who currently fout the law, is as unsurprising and as ephemeral as the early gains for retailers who offered Green Shield stamps. To argue that consumer spending will increase in proportion to trading hours is to offer a simplistic solution to our economic problems: open all shops for 24 bours a day and the retailing boom would revive manufacturing industry at a

Mr Fletcher states that to spread "fixed" costs over longer trading hours is antiinflationary. But fixed costs are not. Retailing does not operate in isolation from society. Should one or two of our important stores take advantage of total freedom to trade, and given the compositive state of the market, this would lead to an Oxford Street "open on Sundays."

Wo would then need changes in the physical distribution system and improvements in banking and postal services. public transport, policing and traffic control, bospital, ambu-lance and fire services, and of tho multifarious and expensive public services such as street cleansing, refuse disposal, traffic wardons, trading standards officers and other local anthority

With Oxford Street trading on Sundays, would not Brent Cross, Croydon, Wood Green and all other London shopping centres follow suit? To assume that the increased costs of such infra-structure services would be dis-proportionately less than any assumed increase in revenue is surely to ignore the current arrangements for Sunday overtime rates-double, and in some cases, treble the standard.

Retail enterprise, as Mr Fletcher rightly points out, exists to provide a profitable service to the public. But it also has an obligation to its staff, the majority of whom are female, often wives and mothers. Sunday is the one day still guaranteed them for family pursuits. I regret that Mr Fletcher made no mention of the impact of

## New enterprise

in 'grey areas' From Mr Brian Robson Sir,-Research into the workings of parts of several major towns and cities in the UK has convinced me that failure to recognise the role which certain of these parts play in the local economy is one reason for our flagging national economy.

It is acknowledged by many here and abroad that nearly all or towns. It can only do so there, and only then if there is a large and healthy poel of goods and services to support it and all of which It in turn

becomes a part.
What is perhaps less widely acknowledged is that the major seed-beds of enterprise are quite specific parts of towns and cities, namely the overlap areas between the "core," "centre" or "beart" and the inner residential and mixed use areas. What gives cause for alarm is that public policymakers and commercial interests have been systematically pouring weed-killer on these valuable seed-beds for several decades. In a paper to the conference

on "The Future of the City Centre" (since published by Academic Press 1983), the writer observed that such areas have the following characteris-

a. High employment (or work) density;
b. Most of the employment (or work) not registered or known by the local authority;
c. Slightly run-down appear

d. Cheap accommodation; e. Great vulnerability because of b and c.

These are the "grey areas" ripe for ring roads, parking lots or clearance for no clearly understood motive. This, of course, destroys not only the activities within the

area but, in destroying the linkages with areas insido and out, also adversely affects those other areas and the general economic health of the town.

Even when such an area is not be advantageous to the local economy because local firms are then likely to be priced out. giving way to what I would describe as a "colonial ecowhere much of the nomy " money, except for rates and wages, goes outside instead of recirculating in the locality.
(The dangers of foreign ownership to the national economy

are well known.) A glance at those cities where the dole queues are longest and trouble greatest invariably picks up those where the most clear-Sundsy trading on the staff em- | ance has been carried out, often

# Letters to the Editor

with a fine system of new roads. April 3 by Messrs Law and In some cities, however, some Tooke merely confirm what a such areas have survived the little forethought would lead depredations of anachronistic planning theory and the money If there were no taxation at markot. This letter is really a plea for their positive conservation, possibly by use of com-mercial improvement area legislation, although it must be emphasised that such areas are essentially mixed-use. They also inclode retail, service, pubs, cafés and residential use, the latter having a significant effect

in stimulating economic activity new enterprise starts in cities in the area. in the area.

Manufacturing and services in such areas are frequently of a specialist nature with a retail outlet, sometime representing the reason why some people go to the city at all. Hence the necessity for a near-central location, but all these form part of a matrix of interrelated activities. Some stay in the activities. Some stay in the area of mutual support but occasionally grow to the extent of being able to carry out their own servicing, cauteens and the

like.
Only then does an industrial estate location become really feasible, although the advance

factory sheds out of town are suitable for low employment activities needing bulk storage only occasionally.

The mixed use areas overlapping city centres and inner city reas — where these have survived the "silly sixtles syndrome" — therefore re-

(a) Security and confidence

from redevelopment and road blighting;

Some sort of protection from the depredation of economic forces, including the state of the sta

economic forces, including rates.
Given the ability to tailor legislation to local need, these areas given "activity conservation status" should recommend at least the same sort of support as that given to major con-servation towns, but with a different emphasis. It is per-baps no accident that theso conservation towns appear to be burgeoning economically, with unemployment mostly well below the national average. Such a solution might be a

meeting ground for partnership schemes between central and local government to the advancleared for redevelopment of a tage of each. Most politicians, positive nature the result may central and local, are people of good will who would like to take any steps to revive the economy. Watering and manur-ing the seed-beds of local

economy could be one of the Brian Robson. School of Architecture, University of Newcastle

enterprise zones

From Mr D. S. Redfearn

all, in "enterprise zones" or anywhere else, competition for use of land, belonging as It does to the few, would ensure a minimum return to the entre-preneur, and a maximum resi-

Taxation cannot redoce the minimum for which an entre-preneur can afford to operate; but it can, and does, redoce the landlord's residue. To decrease is therefore to increase rent. It would be a different story if taxation were levied at the very source of production, i.e.

according to the value of land irrespective of whether or not the opportunities it presented were being used. This would be a genuine incentive tax, and tha "enterprise zones" would soon live up to their name. D. S. Redfearn.

15, Fennell's Close, Burton Road, Eastbourne BN21 2RJ.

From Mr John Hatherley Sir.—Flease allow me to develop a point raised in Mr Leonard Tooke's letter on rents in enterprise zones (April 3). Behind his and Mr Law's letters is a fundamental matter of public policy, and indeed of

morality.

Mr Tooke wrote: "Those who regard sito values as a justifiable private gain are being short-sighted, and those who fail to collect them are merely this advantage to giving this advantage others."

The question is simply: Who The question is simply: who should recoup the value increment when public money, especially, improves a locality? The Exchequor directly by tax, which has the additional attribute of pruning inflation in land prices back towards the natural supply/demand level. and of reducing PSBR or tax on other taxpayers than site owners? Or should it be the person or company owning the site? I suggest that the former is appropriate.

Private property in land is unknown in tribal societies ironically also in the Common Law of England. I was astonished recently to read in astonished recently to read in a book by a Hindu sage for the spiritual improvement of his followers: "The earth is the property of God, but we, the living entitles, especially the so-called civilised buman heings, are claiming God's property as our own, under both an individual and collective takes expectation.

false conception.
"If you want peace, you have to remove this false conception from your mind and from the world. This false claim of proprietorship by the buman race on earth is partly or wholly the Sir,—The phenomena dis-cussed in your letters column on peace on earth." We in Britain cannot put privately-owned land back to communal ownership, but we can ensure that the community recoups its own through taxa

John Hatherley, 16, Brighton Road, Coulsdon, CR3 2BA.

## Pakistan denies A-bomb allegation

From the Minister (Information), Pakistan High Commission

Sir,-You reported on March 27 that a spokesman for the Indian Foreign Ministry had alleged that Pakistan had made an atomic bomb and that Chins had belped to explode it in nor-

them China. This allegation is utterly false.

Unlike Indis, which exploded a nuclear device in the Rajisthan Desert in 1974, Pakistan has neither made nor proposes to make or acquire a nuclear bomb or similar device. Pakistan has conducted no atomic explosion and its modestsize nuclear programme is solely for peaceful purposes. Q. Aziz. Pakistan High Commission, London, SWI.

## Independent

still From the Chairman, Marplan

From the Chairman, Marplan.
Sir,—Antony Thorncroft's report (March 29) on the market research industry was surprisingly imprecise in its reference to Marplan and Research International.
Far from "disappearing into Research International" as Mr Thorncroft describes it. Marplan simply changed ownership at the end of 1981 (hardly a current development). Until that time, Marplan had been an independent company within the Interpublic group; it was then acquired by Research International and continued its independent mode of operation

5-13 Great Suffolk Street, SEL

## Efficient collection

From Mr P. Torrant-Willis

Sir,-What interests me about the removal of tax relief on life assurance premiums is that it signals that any Chancellor may now take advantage of the efficient collection systems set up for husiness purposes to vary, remove, or even subse-quently to re-introduce tax reliefs.

These changes may be car-riod out quickly and accurately using the direct debiting system and the Miras mortgage interest scheme.

In all this, there is little cos or trouble to the collector. Peter Tarrant-Willis. 108. Mill Lane



# Check the convenience on your way home tonight.

Between them, the various garage services payment cards now being thrusted at you have administration and accounting routines too. probably caused you to wonder about the costs of running your vehicle fleet - and the effectiveness of your present expenses control you receive one single master VAT invoice per procedures.

As many businesses have come to recognise, a card-based system can be the ideal answer - providing of course they pick the right card. Dialcard is accepted at no less than 8,500

garages and filling stations. Its coverage is therefore exceptional - and is not confined to a particular brand of fuel.

Dialcard stands out not only for convenience - a feature you can check as you drive home tonight - but also for the unusual completeness of its services.

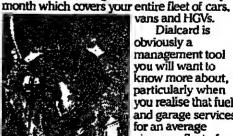
## Dialcard controls ALL fleet running costs

In contrast to cards which are for fuel only, the basic Dialcard system is also valid for the other items of expenditure that running a company vehicle involves - servicing, repairs, tyres, exhausts and batteries.

To give you optimum control of vehicle operating costs, Dialcard provides you with monthly analyses which detail each separate transaction, supplemented by comparative costs-per-mile, fuel consumption and cumulative mileage figures for every individual vehicle in your fleet.

With Dialcard, you automatically obtain the kind of accurate, up-to-date management information that helps to increase the accountability of your fleet as an overhead.

The Dialcard system simplifies expenses Instead of possibly hundreds or even thousands of separate bills and till receipts,



vans and HGVs. Dialcard is obviously a management tool you will want to know more about. particularly when you realise that fuel and garage services

for an average

company fleet of one hundred typical cars and light vans costs around £170,000 annually. To find out more about Dialcard, phone

now or ask your secretary to get in touch with us and ask for details. Dialcard Limited, Wellington House, 154 Upper Richmond Road, London SW15 2SQ.



How much could we cut your fleet costs by?

# FINANCIAL TIMES

Monday April 9 1984



Terry Byland on Wall Street

# Backing the big winners

have provided Wall Street with dra-ma and thrills, are now establishing themselves as reliable performers in a stock market no longer keen on too much excitement. The leading gaming related issues including Resorts International, the noyen of toe Atlantic City operators, Caesar's World and Golden Nugget, all turned in significant increases in share earnings last year and are ex-pected to do the same in 1984.

Nevada, where gaming business took a knock after Atlantic City had entered the scene, continued to stage a recovery last year, when statewide gaming revenue advanced by 9 per cent to \$3.2bn. At Atlantic City, the aggregate net win the industry's profit – was up by 19 per cent to \$1.8bn, without any of the additional capacity which bave been associated with earlier

The Nevada botel/casinos depend more heavily than Atlantic City on the hotel-based visitor, who is staying at least overnight and whose custom reflects the well-being of the American and Pecific econ-

omies as a whole. Las Vegas, which bas felt the reduction in the flow of Mexican, Chinese and Arab visitors, turned in its lowest percentage increase in yearon-year win, according to the Nevada Gaming Control Board.

The Nevada gaming industry is fighting to regain its former status, chiefly by offering improved botels and facilities and strongly promotional air fares.

The state is already showing signs of benefiting from the strength of the U.S. economy and the consequent upturn in the busi-ness travel and convention market. With the Olympic Games in pros-pect pre-booked convention sales

U.S. GAMING STOCKS

are substantially ahead of last year. Hilton Hotels in Las Vegas are now

running at 80 per cent of capacity, against 68 per cent a year ago. Among the sector leaders, both esar's World and Golden No have major casinos in Nevada and are trying to attract the high-rollers who are thought more likely to re-spond to the Nevada name than to that of Atlantic City.

But a questionmark must hang over wbether Nevada can recapture the double-digit growth rates of the early 1970s. The strongest growth prospects still seem to lie in Atlan-tic City, now that the brief standstill in the extension of existing casino space appears to be over. Holiday lnns, the only operator of two casinos in Atlantic City, is opening a substantial extension of its Har rah's Boardwalk Casino and Caesar's has similar plans to add to its Boardwalk Regency. These extensions alone will increase casino space in Atlantic City by 17 per

In the past, increased casino space has meant increased net wins at Atlantic City. The last big leap forward came in 1982, when a 33 per cent increase in casino floor area was translated into a 36 per cent rise in the aggregate net win.

Casino capacity will rise another 20 per cent by the end of next year (1985) as Hiltoo Hotels opens its Marina Hotel and Bally's Park Hotel extends its existing premises.

The increased muscle of the con

ventional hotel groups in Atlantic City underlines the new threat to Nevada that the East Coast upstart is now bidding for a share in the up-market high gaming sector which has previously been Nevada's prov-

All this can only be good news for Resorts International, which has seen its stock continue to move up against a weak market this year. The stock price has been held to \$42 by the repurchase at that price of 1.9m shares, in 1983, Resorts lifted net earnings by 47 per cent to \$3.20

It appears to be successfully fighting off a challenge from Gold-en Nugget at the slot machine end of the business and is aiming at the overseas premium-rated customer through expansion of its baccarat games. Forecasts for Resorts' profits range to around \$4.00 a share a gain of 25 per cent. This would put the stock on a prospective earnings multiple of about 10.5, bardly a generous rating when the Dow Jones smokestack stocks are currently on 15.5 times.

The other Atlantic City casino operators are also set to share in the area's continued gaming growth. Golden Nugget and Caesar's World are likely to report sharply higher earnings this year. But they will always have one ace in the hole - further recovery in Las Vegas will give

WALL STREET WELCOMES END OF COSTLY VIDEO DISC VENTURE

# Disposals put RCA back in tune

IT HAS been a trying and at times crept up to a slightly more respecembarassing decade for RCA. The one-time darling of Wall Street known in its beyday simply as "ra-dio" - bas until recently followed a zig-zag path of expansion and con-traction. Profits fell sharply from a peak of \$315.3m in 1980 to \$54m a year later, while the share price languished.

But now the slumbering giant, led by Mr Thornton Bradshaw, who became RCA's fourth chief executive in six years in 1981, appears finally to bave grasped the nettle, fo-cusing on its core businesses - communications, information and en-

RCA is selling its CIT financial services division - which it acquired in 1980 in a \$1.2bn deal which almost brought the group to its knees to Manufacturers Hanover Bank

Profits rebounded by 40 per cent last year to \$240.8m from \$174m.

The net return on sales of \$8.98bn \$75.7m accounting gain, RCA re-

BY ALISON HOGAN IN LONDON

to take an initial 5 per cent stake in the London-based firm of stockjob-

bers, Charles Pulley, which will complement its much larger 29.9

per cent stake in Hoare Govett, a leading UK firm of stockbrokers,

for which it paid £8.1m (\$11.6m) in

1982. An integration of the broker's and jobber's interests is a possible

Hoare Govett introduced Charles

Pulley to the capital markets group

of Security Pacific headed by Mr

Mr Richard West, managing di-rector of Hoere Govett, said yester-

day: "The jobbing business is a peo-

'European

pillar'

for Nato

Continued from Page 1

to rely on the nuclear deterrent, he

said. As long as that position lasted,
"I cannot imagine that Europe
could be decoupled from the U.S.
without immediately coming under

WEU originates from the 1948

Brussels Treaty between Britain, France, Belgium, the Netherlands

and Luxembourg, which was modi-

fied in 1954 to include West Ger

It has been regarded as moribune

for several years, but security is within its brief and it has a parlia-

mentary assembly that meets twice

A senior French official empha

sised at the weekend that the as-

sembly was one of its main attrac-tions. The assembly has the

competence to discuss defence and

we think it is essential in this peri-

od that there is as much public dis-

cussion as possible," be said.

Paris is understood to have told

its WEU partners that the expan-

sion of the peace movement in Eu-

rope reflected a wrong but growing

public belief that European interests were totally subordinated to

In the controversy over plans to axe at least 25,000 steel jobs over the next few years, M Fabius, who

has been given a new job of co-ordi-

nating restructuring of hard-hit sec-

tors, announced yesterday he would

go to the Lorraine capital of Metz on Tuesday to meet local politi-

The offer to hold the meeting in

World Weather 💯

cians, unions and businessmen.

U.S. strategic concerns.

many and Italy.

a year in Paris.

Will Richardson in Los Angeles.

long-term aim.

largest bank in the U.S., is planning grate."

Now RCA has announced that it is pulling out of video discs - a product introduced in 1980 and once described as its "priority project of the decade. RCA will have spent more than \$500m on the video disc - including upwards of \$300m in operating losses on the venture in the last

While the decision was clearly a painful one, as Mr James Magid, an industry analyst with L. F. Rothschild noted yesterday: "It is never good news to fail." Nevertheless it underlines Mr Bradshaw's determination to improve profitability even if it means taking tough deci-

For that, the former Atlantic Richfield executive is being given full marks on Wall Street. In fact after stripping out the \$175m pre-tax

Security Pacific plans to take

SECURITY PACIFIC, the tenth be the team that we could inte-largest bank in the U.S., is planning grate." but with "the lawyers batting for both sides," Mr West says it should

old senior partner of Charles Pul-

ley, said the firm bad had discus-

sions with an Australian merchant

bank and two London financial in-

stitutions. We liked the good name

of Hoare Govett and the strategy of

Security Pacific. We can provide the

expertise at the London end for a

business with a world-wide market-

He said they were "hedging their bets" on future links, depending up-on bow the market develops and

what further changes the stock ex-

A formal agreement has still to

ple's business, and we looked at the people in it. If and when we need a market-making capacity, this might sion of the stock exchange granted and decided that a small firm might provide me with better opportunities."

has decided to continue to work.

ney-General, yesterday strongly

said political motives and self inter-

est could never justify breaking the

law and it was the Government's

Mr Kinnock has been embar-

rassed by the union's failure to call

a national ballot and Mrs Margaret

Thatcher the Prime Minister has

repeatedly challenged him to say

Acting as Mr Kinnock's emissary, Mr Stanley Orme, the Labour Par-ty's energy spokesman, has held a private meeting with Mr Peter

Heathfield, general secretary of the

strong local feelings over the steel

cuts. But following the sometimes

violent demonstrations last week in

new duties to cancel a visit to Japan

planned for later this week. He will

where he stands on the issue.

duty to stand firm.

French expect investment rise

Pressure on miners

BY PHILIP BASSETT AND JOHN HUNT IN LONDON

Sir Michael Havers, the Attor- Thursday's decision.

to hold strike ballot

MR NEIL KINNOCK, leader of phasised that the Labour leader

Britain's Labour Party, is privately and the shadow Cabinet will be put

bringing intense pressure to bear in an even more difficult position if

on the country's National Union of Mr Arthur Scargill, the NUM presi-Mineworkers (NUM) to resolve the dent, tries to frustrate a decision by

dispute over its failure to call a na- the union's executive at its next

tional ballot for its strikes against meeting on Thursday to call a na-

The strikes are now entering A majority of the executive, by 14 their fifth week and picketing is ex-

pected to resume tomorrow in the a ballot. Among the union's leaders,

Nottinghamshire coalfield, which there is now intensive tactical

condemned the mass picketing. He by no means certain that it would

the groups to Paris - seems part of take part in an interministerial a move by M Fabius to assuage meeting today to study government

tional ballot.

entitled to vote.

thinking about how to influence

If a national ballot is called, it is

go against strike action. A majority of 55 per cent would be required among the 190,000 NUM members

Even if there was a majority

against a strike, militant coalfields

like Yorkshire, Britain's biggest,

Mr Kinnock and Mr Gerald Kauf-

man, Labour's home affairs spokes-

man, will decide today whether to

apply for an emergency debate in the House of Commons over police

handling of picketing during the

dispute. It is expected that they will apply and that a debate will be

and Scotland might ignore it.

Mr Bernard Leaver, the 37-year-

5% stake in UK stockjobber

ported a 117 per cent increase in

first quarter profits to \$69.1m. The sharp improvement in RCA's underlying profitability in the first last year scheduled for disposal—alquarter reflects the much improved so appears to have staged a turnperformance of the group's other main businesses, which range from the Hertz car rental company to the

In electronics, while broadcasting equipment sales remain depressed revenues and earnings excluding the video disc operation rose sharply to record levels. Higher earnings were also reported by the consumer electronics division - RCA remains the leading U.S. maker of television sets and the premier U.S. VCR

RCA's broadcasting division is al-so doing better. NBC's flagging fortunes in recent years were due to poor television audience ratings but, although it still has the smallest audience share among the three major networks, it is catching

not take too long. Charles Pulley is the sixth largest jobbing firm. Mr Leaver joined in

1978 from Pinchin Denny with out-

side backing from two Dutch col-

leagues Mr Gordijn and Mr Voer-man. Together, they formed For-

tress Belleggingen UK, which is a

limited partner in Charles Pulley.

Mr Leaver and Mr Martin West are

both working partners in the firm.

Mr Leaver said: "Charles Pulley was a very sleepy old firm which had got smaller and smaller over

the years as people left to join other

firms. I felt there were changes

afoot in the City, I was quite young,

sion reported a 45 per cent pre-tax earnings jump to \$156.2m.

The rental car business

Generally Wall Street analysts believe RCA is on the mend Mr Magid believes current profits "are about half what they could be" . which implies the company still has a long way to go

In recent months the improve ment in RCA's performance cou-pled with the cash wealth which will flow from its CIT divestiture has led to a wave of speculation about the group being a possible takeover target.

While most analysts believe RCA is still too large to be easily digest ed by almost any suitor, it has not escaped their attention that the group last month proposed a series of measures for shareholder approval which would make acquis up. Last year the broadcasting divi- tion of the company more difficult.

# **Shuttle** hitch as docking

tempts to retrieve the malfunctioning Solar Max satellite following the failure yesterday of a tricky

vice which astronaut Dr George Nelson was attempting to attach to the Solar Max as part of the procedure designed to stop it spinning in space, failed to connect properly. Further attempts were made to grab onto the Solar Max using the shuttle's robot arm but these also

Described as one of the most day ng ventures so far in the shuttle programme, Dr Nelson's mano-euvring around the Solar Max was planned as the first step in a complex procedure to haul the satellite sboard the Challenger shuttle craft

pack, the astronaut flew the 200 feet from the shuttle to the Solar Max, adjusted his speed to match the speed at which the satellite, was spinning, then moved in between its solar panels to try and install a docking pin.

This pin failed to connect proper ly, leaving the satellite still revolving too quickly to be seized by the shuttle's robot arm.

The plan is for Dr Nelson to fix the docking pin, then fire a counter blast from his back pack to stop the satellite rolling, at which point it will be possible to retrieve the Solar Max using the robot arm. The satellite will be brought aboard the shuttle, repaired in its cargo bay, and replaced in its correct orbit.

Earlier in the flight Challenger had performed flawlessly. Climbing into an orbit 293 miles above the earth - higher than any previous shuttle expedition – it released the largest satellite the spacecraft has deployed so far on Saturday. The 11 tonne vessel, the Long Duration Ex-posure Facility, will carry out a seri-

The mission's main function, however, is to try and repair the So-lar Max, and thus demonstrate the

On the union front, steelworkers were yesterday chartering buses in 1980 but began to malfunction afthe region, he is likely to benefit and trains for Friday's Paris demter 10 months in orbit because of from the protective presence of riot onstration. Apart from disgruntled blown fuses. According to NASA ofolice. steelmen, this is likely to be joined M Fabius has been forced by his by workers from hard-hit mechanificials the planned repairs would cost only \$45m while a replacement cal engineering and shipbuilding inwould cost around \$235m.

# move fails

THE LATEST U.S. space shuttle mission will today resume its atmanned space walk manoe The three day-old mission ran in-

to its first major hitch when a de-

es of 57 experiments before it is retrieved a year from now

feasibility of servicing, fuelling and ssembling structures in space. Mr Frank Cepollina, manager of

the Solar Max repair operation, said the programme could extend the life of the satellite for another six or seven years. "It no longer makes economic sense to say bye bye to these assets just because one little component fails, he added. The \$77m satellite was launched

# German strike decision

warning strikes" which have so far held stage, could cripple the promis-ing economic recovery now under

Count Otto Lambsdorff, the Economics Minister, admitted yesterday that a reduction in the standard 40-hour week could be part of the recipe for removing unemployment. But the 35-hour week, with no matching cut in pay, is the wrong way to go about it," he said.

More ominously, Herr Heinrich Franke, the new chairman of the that in a fight they would prove the Federal Labour Office, observed that protracted labour disruption reduction in the normal working might well boost unemployment - week.

precisely the opposite of what the 35-hour week is designed to

But the chances of an agreement in extremis now plainly depend on the employers softening their insistence that the basic 40-hour week must stay.

IG Metall was offered on Friday a 3.3 per cent pay rise this year, plus early retirement facilities and a greater flexibility in working hours. But the Frankfurt talks foundered because the employers, sensing victors, refused to countenance any THE LEX COLUMN

# Revolving doors in Lombard St

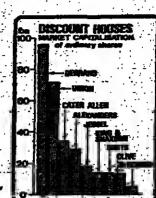
The function of the City of London's discount houses has not changed for decades. They have progressively adjusted to the changing structure of the Bank of England's money market operations and have diminished in number through margary but their inleber through merger, but their role as chosen intermediaries between the Bank and the money markets has never been challenged. Now that role is being recast. The revision of the London Stock Exchange's rule book has suddenly made them attractive as marriage partners, has opened up to them new areas of endeavour and has threatened them with competition

Somewhat to their own surprise, rare seam of one of the City's most precious commodities - market making expertise. Now that the stock exchange looks certain to open its doors to dual capacity and corporate members, any number of institutions are queueing up outside for the chance to make markets, particularly in gilt-edged. With the principal gilt jobbers already accounted for, the discount houses are virtually the only source of home-

Until recently, the independence of the discount houses was virtually ensured by Bank of England char-ter. The disastrous takeover of Clive Discount by Sime Darby in the mid-1970s only reinforced the Bank's belief that foreigners and banks, to name but two categories, were inappropriate partners for the discount houses. That approach has now been abandoned and, if criteria of functional independence can be met, the Bank will listen seriously to any offer for a discount house. Alexanders has already been snapped up by Mercantile House and others will surely follow.

The Bank had been loosening its grip for some years in any case. Since the monetary control ar-rangements of 1981, the houses have played a less sensitive role in the formulation of interest rate policy and, as their special responsibili-ties have declined, so have their privileges. The abandonment of re-serve assets increased their dependence on market funds and, when club money is finally abolished, they will effectively be standing on

growth. By a logic which would apthe capital market - for example to free capital ratio. But steps to repear perverse in the stock market, expand internationally. But last build it might be judged a sounder only houses whose balance sheets week's purchase by Kleinwort Ben-



have been struck by a sudden blight have been permitted rights issues. The overall effect of the Bank's line has been to stunt growth. Over the past decade, only Union and Ger-rard have reported an average in-crease in disclosed assets that was any more than the increase in ster-

ling M2. Yet this paternal stitude hardly squares with the Bank's public commitment to free capital flows and equal opportunity - known in-house as the level playing field principle. The arrival of dual capacity will in some respects be very helpful to the Bank new ways of selling debt and perhaps even reduce the overall cost of borrowing.

Yet it would clearly be anomalous to encourage broader participation in the gilt-edged market while retaining the existing exclusivity in the bill market. It is already rather curious that a one-year bill passes through the discount houses under the supervision of the Bank while a gilt of the same maturity is handled by the jobbers under the the auspices of the stock exchange. The discount market is a rare ex-

ample of dual capacity already in action in the City and it seems sensible that the house should extend into gilt-edged as principals. Conversely, of course, the gilt-edged market makers should extend back-wards into bills. Eventually, the level playing field may accommodate a team of designated counterparties, dealing with the Bank in all man ner of instruments - as primary dealers do in the U.S. The trick is to draft the rules in such a way that the players want to take to the field. in the first place.

The simpler qualifications for a

Yet, in order to retain a balance place in the team are capital ade-between the houses themselves and quacy and distribution. Fresh capito keep a careful eye on their activital ratios will need to be devised ties, the Bank has discouraged di- and discount houses will presuversification and equity-funded mably be permitted free access to

gests that almost all discount houses are already well canugh capitalised for making markets in gilt-edged.

The houses do not have a ready-

made client list for any but shortdated gilts, eithough they could easily open for business in a limited way with a page or two on the Ren-

The real sticking point is the Benk's attitude towards the separation of functions within a designated institution. The Bank may well insist that designated dealers are capitalised separately from their parents and that trading between for example, a banking parent and a discount house is heavily circumscribed if not excluded. That an in termediary should be impartial to all end-users is a foundation of the Bank's edifice. But the risk is that in seeking to prevent conflicts of in terest, and market manipulation, the Bank may compromise its par-allel objectives of open access and enhanced liquidity.

## National Westminster

The clearing banks will be meet-ing formally before the end of this month to compare medicines for their deferred tax ailment. Today's 1983 report and accounts from National Westminister carry a inte ad-dendum which suggests proper pre-scription — and rather nasty it is: with the biggest spoonful reserver for NatWest itself.

The total deferred tax liability on its leasing portfolio stands at no less than £1.7bn and a once and for all provision is indicated to accom modate the budget's impact. The stated liability assumes a 32 per rate and NatWest apparently feels confident of doing enough additional leasing to postpone the crystallisation until after the rate has fallen. to 35 per cent. But even adjusted for this small blessing, the total liabili-ty only falls to £806m - so, with just £236m so far set aside, the net loss to the bank's reserves this year looks set to emerge at about £570m.

Taken in 1983, this loss would have reduced NatWest's free capi tal from 5 to 4 per cent of its total public liabilities. The debt to equity georing, ignoring this year's earnings, would still leave room in 1934 for sufficient extra subordinated debt to allow public habilities to grow much on the scale of 1983

 $g_{3}$ 

# A new name in international securities dealing

# Bisgood International

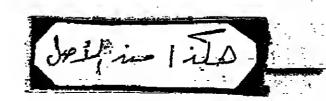
Institutional investors can now deal direct with us. From 30th April we will be making markets in U.S., German and **Dutch securities** 

Call Rory Forrester, Nigel Weller or Leo Knifton on any of the following numbers:

Direct: 01-588 8854 01-588 0402 01-588 1697 Switchboard: 01-628 3033

# Bisgood International Limited

Copthali House, 48 Copthali Avenue, London EC2R 7DN





# SECTION II - COMPANIES AND MARKETS

# FINANCIALTIMES

Monday April 9 1984



INTERNATIONAL BONDS

# Aggressive pricing brings deluge for

BY MARY ANN SIEGHART IN LONDON

THE EURODOLLAR bond market had the air last week of a group of children playing Monopoly - it started off quite happily but soon it was clear that the whole thing would end in tears. Unfortunately, the money lost by issuing houses

The first fixed-rate new issue of the week was for Statoil, guaranteed by Norway. It seemed sensibly priced and was lapped up by inves-

Then issuing houses started to overreach themselves. SBC Inter-national launched a bond for International Telephone and Telegraph (ITT) paying just 11% per cent for three years. This was at least 60 basis points less than FIT would have had to pay in the U.S. domestic market and, judging by the Euromarket's reaction to it, about 30 basis points less than it should have paid over here. Within a day, it was. trading at a two point discount, way outside its 1% per cent total fees.

Its price was dragged down by the subsequent flood of aggressively priced, fixed-rate deals into an unresponsive market. GTE and Citicorp, in particular, issued bonds which fell to discounts of more than one point outside their total fees.

By Friday, though, bankers realised that new fixed-rate issues would succeed only on realistic terms, Morgan Guaranty launched a \$150m, five-year bond paying 12% per cent and Toronto Dominion, a \$50m issue with a 12% per cent coupon, also for five years.

The floating rate note market was far healthier, with seasoned bonds edging up in price. Broken Hill Pty, Australia's largest company, launched what lead manager Credit Suisse First Boston (CSFB) claimed to be the first project finance-linked bond in the Euromarket in connection with its Queens-

Eurodollar market

BHF Bank bond average 99.504 1983-84

land coal acquisition from General Electric of the U.S. It was extremely popular, closing on Friday at a tiny 0.07 per cent discount from par.

Since the total fees were 1% per cent, some dealers suggested the deal was too generously priced and that smaller fees would have suf-ficed. However, CSFB points out that, despite the fact that the deal was guaranteed by the Bank of To-kyo, investors could have been nervous of the potential risks of project finance. Indeed, even at Friday's price, the bond was still trading on a higher yield than equivalent Bank of Tokyo paper.

Prospects for this week are highly uncertain. Although secondary market prices picked up on Friday, they were still at least ½ point down on the week and dealers were nervous. Short-term interest rates have been extremely volatile and the expected U.S. discount rate rise did not materialise until long after European markets had closed down on Friday night. Moreover, the \$675m of fixed-rate issues launched last week is overhanging the mar-

Several new floaters are expected this week, and today two presentations to prospective co-m are scheduled: an FRN by Interfirst Bank (the launch is imminent); and a fixed-rate bond from Coast Savings, backed by U.S. government agency securities.

Both D-Mark and Swiss franc secondary markets have been dull all week. Prices in both sectors hardly changed and trading was

CREDITS

BY PETER MONTAGNON IN LONDON

# Argentina urged to be realistic in debt talks

President Raul Alfonsin still faces several major hurdles in coming to terms with its \$43.6bn foreign debt.

The immediate problem of the quarterly balance sheet deadline has passed for U.S. banks, but Argentina still has to complete difficult negotiations with the Interna-tional Monetary Fund and reach a rescheduling agreement with com-mercial banks creditors and possibly with governments. All this needs to be at least well on the way by June 30, or a new debt service arrears problem will arise for U.S. banks.

At the moment few banks are

velopment Bank annual meeting, it sent an aide memoire to the IMF and why it was quickly joined by in the banking community about steering committee handling talks is clear that the Government of setting out its basic economic tar- Brazil, Colombia and Venezuela. Argentina's readiness to treat its with Argentina fear that Sr Gringets but has yet to agree on how they will be implemented.

> year to January, and since then it ment is determined to renegotiate bas accelerated even further, reach- the terms of the 1982/83 rescheduling nearly 480 per cent in March, ing arrangements agreed by the but President Alfonsin has little po-litical room to manoeuvre towards of the concessions it wants has not

> Creditor banks are now relying on pressure from other Latin Amer- week between Sr Bernardo Grinican countries to push Argentina to-spun, the economy minister, and wards an IMF agreement. Most oth-leading bank creditors. But senior wards an IMF agreement. Most other debtors bave already taken strin- bankers fear that far-reaching congent measures themselves and do cessions would be hard to sell to the not want to see their own progress financial community as a whole and towards recovery jeoperdised by a might create an awkward prece-

Yet even an IMF agreement would not solve Argentina's prob-Inflation cearly doubled in the lems entirely. The Altonsin Governyet been defined - though it may become clearer at new talks this

package launched for Argentina in gotiations can be completed in such was the main reason why Mexico seeking to renegotiate better terms. all estimate for 1984. Some bankers on the undertainty a short space of time. Argentina has proposed the emergency package There is still marked uncertainty Some bankers on the complete of the emergency package.

problems realistically. This sets it apart from other crisis cases like Brazil and Mexico, where there was always a basic political will to come to terms with creditors, and makes the final outcome of its debt talks much harder to predict. Bankers close to Argentina well

understand the political constraints on the new government, but this understanding is not shared by all the country's 300 bank creditors, se patience has been sorely trie d. All of them will bave to be party to any eventual settlement of the debt problem, which will almost certainly include a substantial new

A WEEK after the \$500m rescue willing to predict that all these ne- new debt crisis in Argentina. This dent with other borrowers also loan - \$30m is the current provision- months to reach this point, and

Some bankers on the 11-bank spun is labouring under an illusion that all creditor banks will readily accept any package that is put to

That selling new debt rescheduling packages is no easy matter is, however, shown by the time it has taken Mexico to complete its \$3.8bn credit. By last week, commitments had been received from all but a main criticisms from participating handful of banks and at the end of banks. the day total subscriptions are expected to reach \$4bn, which will allow \$200m to be rebated on a pro-rata basis according to subscriptions

there are still some pockets of resisgional banks, even though Mexico's economic performance makes it the biggest success story in Latin

In the syndicated credit market, Ireland appears to have calmed the storm it created by seeking to renegotiate last year's \$500m credit on softer terms. It has now modified its proposals to take account of the

One other small development last week was a discreet acceptance by the Soviet Union's Foreign Trade Bank of an increase to \$200m from \$150m in the credit it is seeking

Bocowers	Amount ED.	Maturity	Av. Itta years	Coupon %	Price	Lead Manager	Offer yield %	Barrowers	Amount M.	Meturity	Av. Etu years	Coupen 0/9	Price	Lead Manager	Offer yie
E.S. DOLLARS								D-MARKS							
Hippen Shoet Eless S‡ Ajnomete Co. S	25 189	1994 1999	10 15	314	180 180	Dehve Europe, Homers intl. Homers intl., Hikin Sees., Marrill Lynch, Daiwa Eur.	3.25D	Nove Zestand ‡ World Bank ‡	250 360	1991 1992	7 8	74 74	100 100	Commerziank Deutsche Eank	7.25 7.75
Prov. of Newfoundard 1	. 75	1991	7	13	1801/4	CCF. Bominion Sees. Ames	12.844	SWISS FRANCS							
State I	188	1982	4	12	188	Coutsche Bank, Marrie Lynch	12,880	Nippon Sheet Glass "St	30	1989	_	13/4	100	SBC	1.75
mt ±	100	1987 (c)	3	111/2	198	SBCI, Leisman Brus		Damingon Screen Mg. "51	30 100	1990	_	13/4	100	SEC	1.75
						Luzard Bros., Mon. Guaranty	11.500	Sweden 1	125	1994	_	53/4	1001/4	382	5.71
Comeat 1	109	1991	7	1214	100	CSFB, BA lett., Horsera Intl.,		Toda Konyo "51	68	1989	_	13/4	100	SBC	1.75
The second secon		-	-			Deutsche Bk., SBCL UBS Secs.	12.258	Yoskitomi Pherm. ***11	100	1989	-	33/	100	CS	3.37
Bk. of Montreal †(b) †	250	1098	12	1/2	188	Mon. Stanley, UBS Secs.		Dailti Akuminium Incl. **51	28	1989	_	13/4	160	Handelshank	1.87
Broken Hill Pty, †(a) 1	355	1996	12	1/4	100	CSFB. Bk. of Toloro last.	_	NEK Spack Plog Co. "\$	108	1989	_	2	188	SBC	
Braken Hill Pty. †27	46	1396	12	1/8	100	CSFB, BA Asia	_	State Bac, Camero, Victorie **1	100	1991	_	2	100	SBC	5.08
Oneda Coment Co. 1	30	1589	6	7%	100	Hilden Sees., Robt. Floring, IS.I in	el -	Eksportfigens Negway 1	100	1994	_	51/4	100	Citicore Blr. (Switz)	5.25
TE Fe. 1	75	1987 (c)	4	12	100	Orion Royal Bank	12.000	Reigium ** 1	1800	1989	_	52/4	100	Squa. Mon. Greniell en Suisse,	
Iticorp ‡	190	1987 (4)	3	1134	188	Morgan Granfall	11.750					• /		Krediethk. (Suisse)	5.75
Sk. of Helsicki † (b) 1	50	1999	15	1/2	100	Margan Guaranty	11.155	Mat. Australia Bk. **1	109.2	1985	_	51/2	993/4	IBS	6.55
Banco de Viscaya †(a)‡	. 75	1996	12	1/4	100	Labourn Bros., Origin Royal,	_	Tokya Store Chain **\$	30	1989	_	2	190	Swiss Volkshank	0.23
				7.	100	Mitsubishi Fig.		Witsui Construction **5	50	1989	_	23/2	109	Citicorp Bk. (Switz)	
Dai-Ishi Xange †(s)‡	150	1996	12	1/2	188	Marrill Lynch, Bei-Ichi Kannyo.	-	Prov. of Br. Columbia **1	325	1589		5	100	ES (SMILE)	5.00
	136	1990	14	78	160	CSFB, Mon. Startey		N. Z. Balway Co. **I	25	1992	_	5%	100	SBC	5.62
Terrente Deminios 2k. 1	58	1589		125%	100	Morgan Stanley	12.625	Tenerokraftererka	125	1594	_	378	100	SBC	5.62
Mgr. Gowanty Tst. Co. 1	158	1989	5	1234	100	Morgan Sugary	12.258		123	1334				306	3.02
CANADIAN BOLLARS	· · · · ·							STERLING Council of Europe ‡	50	1992	8	11%	100	Hill Saumei	11,37
TRC ‡	68	1989	5 .	1234	198	CIBC Lini.	12,758	GIRDERS							
-MARKS								EC1	200	1994	10	83/4	1001/2	ABN, Amro Bank	8.67
Summera Jantando 11	100	1989	5	3%	100	DG Bank	3.375							···	
Litoly Fuel 1	25	1089	5	31/2	100	Dentucie Benk	•	ECUs							
lamen Co. 1	88	1989	5	31/2	186	Drugdour Hank	•	Minnon Credit Bank	50	1991	61/2	11	100	Soc. Gen. de Boue., BNP,	
MAC ""1	50	1989	5	E34	100	Beetsche Beek	6.875							Nippon Credit Bk. H. K.	11.60

**NEW ISSUE** 

14 35

MARCH 1984

U.S. \$100,000,000

# Takugin International (Asia) Limited (Incorporated in Hong Kong)

Guaranteed Floating Rate Notes Due 1994



Guaranteed as to payment of principal and interest by

# The Hokkaido Takushoku Bank, Limited

Credit Suisse First Boston Limited

Takugin International Bank (Europe) S.A.

**Bankers Trust International Limited** 

Banque Nationale de Paris

Citicorp Capital Markets Group

First Chicago Limited

Daiwa Europe Limited

Lehman Brothers Kuhn Loeb

Samuel Montagu & Co. Limited

Société Générale de Banque S.A.

S. G. Warburg & Co. Ltd.

Banque Bruxelles Lambert S.A.

Bayerische Landesbank Girozentrale

County Bank Limited

Enskilda Securities

Kidder, Peabody International Limited

Manufacturers Hanover Limited

Saudi International Bank Al-Bank Al-Saudi Al-Alami Limited

Swiss Bank Corporation International Limited

Westdentsche Landesbank Girozentrale

These Bonds having been sold outside the United States of America and the Netherlands Antifies, this announcement appears as a matter of record only

# **GMAC OVERSEAS FINANCE CORPORATION N.V.**

Curação, Netherlands Antilles

U.S.\$ 80000000

Bonds of 1984 due 1991/96 Interest payable in Swiss Francs at the rate of 5 1/4% p.a. on the aggregate subscription price of

Swiss Francs 100 000 000

## GENERAL MOTORS ACCEPTANCE CORPORATION Detroit, Michigan, U.S.A.

SODITIC S.A.

AMRO BANK UND FINANZ

**MORGAN STANLEY S.A.** 

BANQUE SCANDINAVE EN SUISSE

THE ROYAL BANK OF CANADA (SUISSE)

Bank Heusser & Cie AG

Banque de Dépôts et de Gestion

Bank für Kredit und Aussenhandel AG Bank Oppenheim Pierson (Schweiz) AG

Banque de Participations et de Placements S.A.

Dresdner Bank (Schweiz) AG

Kleinwort, Benson (Geneva) S.A.

Privat Kredit Bank J. Henry Schroder Bank AG

Sumitomo International Finance AG

BA FINANCE (SUISSE) SA

KREDIETBANK (SUISSE) S.A.

Banque Gutzwiller, Kurz, Bungener S.A.

Banco Exterior (Suiza) S.A. Bank Künzler AG

Banque Indosuez, Succursales de Suisse

Chase Manhattan Bank (Suisse)

First Chicago S.A. Nippon Kangyo Kakumaru (Switzerland) S.A.

Sanwa Finanz (Schweiz) AG

Société Générale Alsacienne de Banque

- Groupe Société Générale -

U.S. BONDS

# Discount rate rise shifts focus back to money supply

THE FEDERAL Reserve has the widespread view that the finally acted. At the end of a Fed has now formally shifted week in which the Fed funds its Fed funds monitoring range rate touched 12 per ceot at one upwards, meaning that it has stage, the banks raised their in effect endorsed the firming of prime rates for the second time interest rates brought about by in three weeks, long bond the market itself.

Some Wall Street economists prices fell to new lows, and the Fed topped it out with a balf percentage point increase in the discount rate from 8} per cent to 9 per cent. The change was the first since December 1982, and a half during which it set and the first increase since May unofficial interest rate targets. and the first increase since May unofficial interest rate targets, as a result of which there was 2 substantial expansion in the monetary base but a steady Fed

The Fed's move late on Friday night ended a protracted

U.S. INTEREST RATES (%)

Apr 6 Mar 30 Fed funds weekly average 10.41 8.97
3-manth C0's 10.40 10.33
3-month T-Bills 9.77 9.68
30-yeer Tressury Bond 12.60 12.49
AAA Utility 13.25 13.26 13.25 Source: FT satimates.

In the week anding March 26 M1 rose by \$2.24bn te \$538.3bn.

period of uncertainty and speculation in the financial markets. Nevertheless, it bas probably generated as many questions as it bas answered. In particular, attention has been focussed once more on the Fed's reserve management the Fed's reserve management 12.40 per cent, down from 12.56 policy and on the money supply. per cent a week ago.

The Fed attributed the discount rate increase to technical factors, and specifically to the "relatively wide spread between short-term market rates on Friday to show a marginal factors."

Most short-term rates rose during the week as the Fed funds rate traded up above 10.5 per cent, though it edged down on Friday to show a marginal factor that the statement of and the discount rate." to that extent, as several Wall Street economists noted late on Friday, the increase was inevitable, yet that does not lessen its significance.

Speculation about a discount of the Friday raily and a rate rise had increased steadily quarter-point decline in the over the past few weeks and price of long-term bonds. the markets had partly, dis-counted it, However, the Fed waited to act until the Argentine debt agreement was complete, the Fed funds rate had peaked and was on the way down, and the credit markets

On the face of it, the discount rate increase marks a significant tightening of the Fed's stance, especially given

# Turner may bid against ABC for cable network

grant.

Turner, which runs CNN, a

24-hour-a-day cable news channel and owns WTBS, the second largest cable channel, said it was studying information in preparation for making s bid for

number of interested parties.

The oil company, which owns

70 per cent of ESPN, was widely expected to sell Getty's non-oil interests following the merger, but adds that no formal offers bave been received.

Earlier this year ABC

Broadcasting Companies (ABC) oil company, gained control of cent is owned by Mr William could emerge as rivals for control of the Entertainment and of Gotty Oil earlier this year.

Sports Programming Network it bas confirmed that it is considering the sale of the 22-hourwork in the U.S. which reaches some 30m households and is bas held discussions with a controlled by Texaco, the oil bas held discussions with a controlled by Texaco, the oil mumber of interested parties.

The oil company, gained control of cent is owned by Mr William Rasmussen, the network's foonder, and his family.

ABC acquired its 15 per cent estake for about \$30m and at the same time extended until october 1986 its option to purchase a further 34 per cent.

The oil company, gained control of cent is owned by Mr William Rasmussen, the network's content of the 22-hour-aday cable news characteristics.

ABC acquired its 15 per cent estake for about \$30m and at the same time extended until october 1986 its option to purchase a further 34 per cent.

The oil company, gained control of cent is owned by Mr William Rasmussen, the network's content in the network's estake for about \$30m and at the same time extended until october 1986 its option to purchase a further 34 per cent.

The oil company, gained control of the samussen, the network's content in the network's production of the network's content in the netwo

TURNER BROADCASTING, majority control of ESPN in the U.S. television and cable news group, and Amarican Broadcasting Companies (ABC) could emerge as rivals for control of the Entertainment and of Gatty Oil carrier this record fronder and his family

stake up for sale.

Based on the price ABC paid for its 15 per cent stake, analysts believe ESPN could be

# Revised offer by Kelso for US Industries

of the UK.

THE TAKEOVER struggle for U.S. Industries, the Connecticut based industrial and consumer products group hotted up at the weekend, when Keiso is offer to a price well in excess of the bid from Hanson Trust

Keiso's revised offer was made

Kelso is offering \$24 a share after the close of trading on the New York Stock Exchange on proposals, valuing the company at \$490m Hanson had previously at \$21.75, valuing the group at \$42.75, valuing the group at \$440m. The proposals are being the U.S. following Kelso's considered by 0 committee of outside directors, who advised the bid from Hanson Trust

Kelso's revised offer was made Keiso's revised offer was made

# Carma to double capital

CARMA, THE Calgary land developer which is one of the heaviest casualties of the property slump in Alberta, intends to double its common share capital as part of a C\$700m (US\$547m) refinancing programme.

The company will issue 31.2m new shares to settle various obligations, bringing the number outstanding to 55m by mid-May. The issue is insufficient, however, to cover Carma's commitments and it said further issues are possible before the end of 1986.

Preferred shareholders will receive a total of 22.7m common shares worth C\$10.5m at current market prices for their 6.5m pre-ferred shares with a par value of C\$130m. Carma will issue another 2.9m common shares to holders of C\$87m of debenures in part payment for interest owed since the beginning of 1983. Th remaining shares will be issued to three major creditors. The issue will reduce the stake of Carma's major shareholder, the Nu-West Group, which has serious financial problems of its new from 40. lems of its own from 49 per cent to 41 per cent.

# Moulinex maintains earnings recovery

MOULINEX, THE French kitchen equipment maker, boosted fell to FFr 1112m, from FFr
group net profits last year to 133.9m in 1982.
FFr 68.8m (\$8.5m) from The company has already
FFr 53.2m in 1982, despite a indicated that comparisons with
sharp fall in operating profits. the 1982 results would be dis-

The result, which maintains torted by the cost of restructur-

The result, which mentains torted by the cost of restructuring group's recovery after a mg U.S. operations. This follows the setting up of a joint achieved on consolidated turn to Regalware with the American over up only 6.2 per cent to Regalware kitchen equipment FFr 291bn, against FFr 274bn company.

The timpeny said its results of runodis over who will take were affected last year by over when M Jean Mantelet, the restrictions on South American by over when M Jean Mantelet, the S3-year-old chairman and main sales, the restructuring of its shareholder, eventually gives up North American subsidiary, and the reins. M Mantelet, who has the low volume rise in its business. Among other exceptional 1932 and has no heir, amountactors, were high depreciation ced in 1981 he was looking for a new partner—but does not seem to have found one yet.

## **Growth for Wereldhave**

WERELDHAVE, the Dutch property fund which last year mounted a successful defence against a determined takeover bid by PGGM, the Netherlands' of F1 9 per ordinary share has largest pension fund, recorded been proposed, against F1 7.5 in a 150 per cent rise in the 1982.

acquisitions.

• Mr Norman P. Blake, Jr, has been named chairman and chief executive officer of HELLER.

# Finance chief for

• Mr Robert M. Kavner has been elected a senior vice presi-dent of AT & T and will become chief financial officer on May 1. He is a partner in Coopers and Lybrand. He will be responsible for directing and co-ordinating the organisations which integrate the financial systems and analytical processes for the corpora-tion as a while including from cial management, accounting, budgeting, economic forecasting, tax planning and other related

 New managing director of New issue volume bounced Sweden's fifth largest general insurance company, ALLMANNA BRAND, is to be Mr Nils-Yngve back to \$1.38bn compared to less than \$600m the previous week. Among the new issues Danielsson, until recently manag-ing director of the Gothenburg-Occidental Petroleum launched \$350m of 10-year 12.25 per cent variable-rate subordinated notes, based marine and general insurance company, Atlantica Insurance Company.

The Fed's discount rate increase could mark something of a watershed. As a clear state-ment of political independence

and a long swaited signal re-affirming the Fed's anti-infa-tionary stance and thus a bolster to its markst credibility.

the move could have a profound effect on 8 depressed market. There remain o number of

major uncertainties, not least the unresolved budget deficit debate and concerns about

mounting private credit demand

move, the credit and money markets had turned in a patchy performance. After failing to a new low of 95 on Tuesday to

yield 12.65 per cent the price of the Treasury long bond closed the week at 96% to yield

increase over the week by th

New issue activity showed renewed signs of life despite a

half-point decline in seasone

medium-term issue prices ahead

Friday close.

Ahead of the discount rate

worldwide; Mr Wendall Mohler to vice president, publishing; Mr Roland Plerce to vice president, retail merchandis; Mr Gary Krisel to vice president, USA licensing; Mr Pete Smith to executive director, USA licensing; and Mr Jee Pellegrino to director, USA licensing.

Mr Frank J. Blendi, Jr, who

WALT DISNEY PRODUC-

had been president and chief executive officer of HOME BOX OFFICE INC, has been appointed chairman and chief executive of the Time Inc subsidiary. Succeeding him as president is Mr Michael J. Fuchs, who was presi-dent of the HBO Entertainment Group. Mr Fuchs will also serve Group. Mr Fuchs will also serve as HBO's chief operating officer, a oewly-created title. Mr Winston H. (Tony) Cox, president of the HBO Network Group, will assume additional responsibility for the programming activities of HBO's Cinemax service. As president of the Network Group, ha is in charge of HBO's sales, marketing and oetwork operations functions. work operations functions.

Sir Neel Foley retired as chairman of CSR. Sydney, on March 31. Mir Keith Steel has been appointed chairman. Paul Taylor

WALT DISNEY PRODUCTIONS has made the following appointments: Mr Lee Reem to vice president, sales promotion, McMoRan Inc., has appointed First Commerce Security with the succeeded at Nova-Park.

PANY, a subsidiary of Freeport Minerals in will be succeeded at Nova-Park.

PANY, a subsidiary of Freeport winerals in will be succeeded at Nova-Park.

PANY, a subsidiary of Freeport Minerals in will be succeeded at Nova-Park.

PANY, a subsidiary of Freeport Minerals in will be succeeded at Nova-Park.

PANY, a subsidiary of Freeport Minerals in will be succeeded at Nova-Park.

PANY, a subsidiary of Freeport Minerals in will be succeeded at Nova-Park.

PANY, a subsidiary of Freeport Minerals in will be succeeded at Nova-Park.

PANY, a subsidiary of Freeport Minerals in will be succeeded at Nova-Park.

PANY, a subsidiary of Freeport Minerals in will be succeeded at Nova-Park.

PANY, a subsidiary of Freeport Minerals in will be succeeded at Nova-Park.



Mr Dennis R, Twining, president of Freeport Metal Sales

ing activities for metals, both domestic and foreign under a single unit. Mr Twining was named director of metals and ore sales in 1980 and vice president of Freeport Minerals in 1982.

INTERNATIONAL APPOINTMENTS

Mr Dennis R. Twining president of Freeport Metals Sales Co. Freeport Metals is a new entity established for the purpose of centralising all sales and market-

TIES B.V., an international stock brokerage firm based in Amsterdam, has appointed two managing directors. They are Mr B. W. J.

Steensma, who is director of corporate development and Mr E. H. J. C. le Clercq, who is director of sales.

MORGAN GUARANTY

TRUST COMPANY OF NEW YORK has promoted Mr Willy YORK has promoted Mr Willy Douin to vice-president, Mr Francois Detaudt to assistant compensations. Dr. Blom was with Royal Vice-president and Mr Thee Van Engeland to assistant compensations in Peru. Engeland to assistant comptroller. All are assigned to the Brussels office. • Dr Reme Denti has been nominated to succeed Mr Hein-

rich Hig as new managing director of ZYMA, the Swiss pharmaceutical affiliate of the Ciba-Geigy group. Mr Hug is to retire after the coming shareholders' meeting.

Mr Max Engel, hitherto vicepresident, operations, of Swiss-based Nova-Purk Management Group, has been appointed thairman of SWISSOTELS, the joint venture of Nestle and Swissair in the hotel sector. He will be succeeded at Nova-Park.

TIES B.V., an international stock . East and North America, by Mr Mr Binke has been executive vice president financing opera-tions of General Electric Credit

> Mr Klans J. Jacobs, currently manging director and vice-chair-man of the Swiss-based coffee and man of the Swiss-based coffee and chocolate concern JACOBS SUCHARD, intends to withdraw from the day-to-day management of the company and succeed Dr Nello Colio as board chairman. Dr Celio, a former Swiss finance minister, is to retire. At the service time worth. Dutch Shell Group as operations manager "explorations" in Peru. minister, is to retire. At the same time, group financial director Mr Guender Bolte is foreseen as a new board member, while on July 1 Mr Francis N. Steeg will take over Mr Jacobs position at the head of the group management. Mr Raymon A. G'Deberty has Mr Raymen A. O'Deberty has been appointed president of TEXACO OIL TRADING: AND SUPPLY CO. This division is responsible for worldwide purchases and sales of crude oil and petroleum products. He was senior vice president in the division. He succeeds Mr Peter I. Bijur, who is assuming new responsibilities for special assignments related to Texaco's recent acquisitions.

● Mr. Carl R. Turner has been appointed division vice president and general manager of the RCA solid state division, New Jersey. Mr Turner will be responsible for the development, manufacturing and marketing of hill solid state products at RCA.
He was staff vice president,
planning, for RCA electronic
products and laboratories. He INTERNATIONAL CORP, products and laboratories. He recently-formed U.S. subsidiary of The Fuji Bank Heller niter who has been named vice president business development for Walter E. Heller and Co and electronic products and labora-Walter E. Heller, Overseas Corp. tories.

## ET INTERNATIONAL BOND SERVICE

This advertisement complies with the requirements of the Council of the Stock Exchange



# Kingdom of Sweden

U.S. \$200,000,000 12% per cent. Bonds due 1989

> The following have agreed to subscribe or procure subscribers for the above Notes:

**Swiss Bank Corporation International Limited** 

Algemene Bank Nederland N.V. **Credit Suisse First Boston Limited Dresdner Bank Aktlengesellschaft Merrill Lynch Capital Markets** 

Morgan Guaranty Ltd **Orion Royal Bank Limited Union Bank of Switzerland (Securities) Limited** 

**Banque Nationale de Paris Deutsche Bank Aktiengesellschaft** Kredietbank S.A. Luxembourgeoise Samuel Montagu & Co. Limited **Nomura International Limited** 

Salomon Brothers International Limited S.G. Warburg & Co. Ltd.

Skandinaviska Enskilda Banken Post-och Kreditbanken, PKbanken Svenska Handelsbanken Group

The 12% per cent. Bonds due 1989 have been admitted to the Official List by the Council of The Stock Exchange. subject only to the issue of the temporary Global Bond.

Interest is payable annually in arrears on 26th April, the first payment being made on 26th April, 1985. Full particulers of the Notes will be circulated in the Extel Statistical Service and may be obtained during usuel business hours (Saturdays excepted) up to and including 23rd April, 1984 from the brokers to the issue:

> Rowe & Pitman, City-Gate House, 39/45 Finsbury Square, London EC2A 1JA

Strauss Turnbull & Co., 3 Moorgate Place. London EC2R 6HR

9th April, 1984

i Bid Offer they week Yield 94's 96 0 -0's 12.70 88's 89 0 -0's 11.50 82's 82's +0's -0's 11.50 82's 82's +0's -0's -1 12.82 194's 94's +0's -1's 12.60' 95's 98's +0's -0's 12.70 95's 98's +0's -0's 12.70 95's 98's +0's -0's 12.70

Average price changes...

Average price changes...

Average price changes...

On day +0°2 on week -0°3

DEUTSCHE MARK

STRAIGHTS

Alled Chemical 7°2 94

Alled Chemical 7°2 94

Les Changes on the day week Yield day week Yield days on the large of the large the la

Ned. Middneths. 3 88. Fl PHP 94. 89 Fl. Rabobesk 9 85 Fl. OKB 14 86 FFr Solvay et C. 144. 86 FFr SFCE 111, 88 £ Clbs-Gelgy Int. 81, 35 £ Commercianik 17, 30 £ Deamserk 104. 88 £ EEC 114. 94 £ EEC 117. 93 £ EIS 104. 92 £ Flaisand Rep. 117, 58 £ BIJ 179. 85 £

EUROBOND TURNOVER (nominal value in \$m)

Cedel clear Last week ... Previous week 6.448.5 13.963.2 Other bonds Last week ... 1,792.6 2,115.3 Previous week 2,024.0 2,421.6

previous day's price:

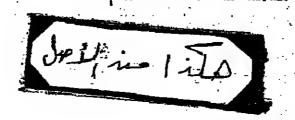
STRAIGHT BONDS: The vield straight Bonds: The yield is the yield to redemption of the mid-pate; the amount issued is in infilious of currency units except for Yen bonds where it is in billions. Change on week carlier.

FLOATING RATE NOTES: Denominated in dollars unless otherwise indicated. Coupon shown is minimum. Cate=Date snown is minimum. Care = Date
next compon becomes effective.
Spread = Margin above six-month
offered rate (‡ three-month;
i above mean rate) for U.S.
fioliars. C.cpn = The current
coupon. C.yid = The current
yield.

CONVERTIBLE BONDS: Denominated in dollars unless otherwise indicated. Cing day=Chinge on day: Cav. dane=First date for conversion into shares. Cav. price=Nominal amount of bond per share expressed in currency of share at conversion rate fixed at issue. Prem=Percentage premium of the corrent effective price of acquiring shares via the bond over the most focent price of the shares.

The list shows the 200 latest CONVERTIBLE BONDS: Deshares via the bond over the most recent price of the shares.

The list shows the 200 latest international bonds for which an adequate secondary market exists. The prices over the past week were supplied by Krediethank NV; Credit Commercial de France; Gredit Lyonnais; Commercial de France; Gredit Lyonnais; Commercial de France; Gredit Lyonnais; Commercial de Lundesbank Girozentrale; Banque Generale du Lunembourg; SA; Banque Guerale du Lunembourg; SA; Banque Guerale du Lunembourg; SA; Banque Grezali de t'u'an k Lanambourg; R'e d't e t'u'an k Lanambourg; Algemene Bank Nederland NV; Pierson Heldring and Pierson; Credit Suisse/Swiss Credit Bank; Union Bank of Switzerland; Chain Bank of Tokyo International; Blyth, Basimen, Paine, Webber International; Caredit Commercial de France (Seonrites) London; Daiwa Europe NV; EBC; First Chicago; Goldman Sachs International; Corporation; Hambrus Bank; Illuternational; Kidder Paghody International; Sendirevian Bank; Societe Generale Strauss Turnbull; Sumitomo Finance International; S. G. Warburg and Co.; Swiss Bank; Corporation Libernational; Wood Gundy.





Offer for Subscription by

# N. M. Rothschild & Sons Limited

on behalf of

# Biotechnology Investments Limited

of 2,000,000 Ordinary Shares of 2 cents each at £9.15 per Share payable in full on application.

SHARE CAPITAL

in 7,500,000 Shares of 2 cents each

The Shares now offered rank in full for all dividends and other distributions hereafter declared, made or paid on the issued share capital of the Company other than the interim dividend of 10 cents per Share payable on 31st May, 1984 to shareholders on the register at the close of business in Guernsey on 28th March, 1984. Preference will be given, in respect of up to 20 per cent. of the Shares now being offered for subscription, to applications made by existing shareholders in the Company. The procedure for application is set out below

This Offer has been underwritten by N. M. Rothschild & Sons Limited.

The consent of the Advisory and Finance Commutee of the States of Guernsey under The Control of Borrowing (Bailwick of Guernsey) Ordinances 1959 to 1976 has been obtained for the issue of Shares in connection with this Offer, It must be distinctly understood that, in groung this consent, the Commutee takes no responsibility for the financial soundness of any schemes or for the correctness of any of the statements made or epivions expressed with regard to them. The Shares have not been registered under the United States Securities Act of 1933 and, except in a transaction which does not violate such Act, mor not be directly or indirectly offered or sold in the United States of America (including in territories, possessions and areas subject to its jurisdiction) or to or for the benefit of a United States person. For this purpose, "United States person" includes a national or resident of the United States of America, a corporation organised under the laws of the United States of America, a corporation organised under the laws of the United States of America or family state, territory or possession thereof, or any estate or trust, other than an estate or trust the income of which from sources outside the United States of America (which is not effectively connected with the conduct of a trade or business within the United States of America) is not included in gross income for the purposes of computing United States federal income tax.

All references to "USS", "dollars" and "cents" are to lawful currency of the United States of America

DIRECTORS

Lord Rothschild (Chairman) GBE, GM, ScD, FRS

New Court, St. Swithin's Lane, London EC4P4DU. James Carroll Blair (USA) Sir Edwin Hartley Cameron Leather (Canada)
The Harold Hayes Frith Building, Par-la-ville, Hamilton, Bermuda. David Frederick James Leathers'
New Court, St. Swithin's Lane, London EC4P 4DU.

Donald Peter Lines (Bermuda) Front Street, Hamilton 5-31, Bermuda Nicolas McAndrew New Court, St. Swithin's Lane, London ECIP 4DU. David Padwa (USA)
3375 Mitchell Lane, Boulder, Colorado 80301-2244, USA.
Edward Benjamin Ziff (USA)
550 First Avenne, New York, NY10016, USA.

REGISTERED OFFICE P.O. Box 242, St. Julian's Court, St. Peter Port, Guernsey, Channel Islands.

Bermuda Shiefd Trustee Company Limited P.O. Box 1020, Hamilton, Bermuda.

MANAUERS & REGISTRAR
N. M. Rothschild Asset Management (C.I.) Limited,
P.O. Box 242, St. Julian's Court, St. Peter Port, Guernsey,
Channel Islands,
Telephone: Guernsey (0481) 26741/27042
Telex: 4191673/4191507

INVESTMENT ADVISERS
N. M. Rothschild Asset Management Limited,
New Court, St. Swithin's Lane, London EC4P 4DU.
Telephone: (01) 280 5000
Tefex: 888031

VENTURE CAPITAL ADVISERS Rothschild Inc.,
One Rockefeller Plaza, New York, NY10020, USA,
Telephone: New York (212) 757 6000

BANKERS & CUSTODIAN

**AUDITORS & REPORTING ACCOUNTANTS** Peat, Marwick, Mitchell & Co., Chartered Accountants 10 Lefehvre Street, St. Peter Port, Guernsey, Channel Islands

LEGAL ADVISERS TO THE COMPANY In England: Linklaters & Paines, Barrington House, 59-67 Gresham Street, London EC2V 7JA In Guernsey: Ozanne, van Leuven & Perrot, 1 Le Marchant Street, St. Peter Port, Guernsey, Channel Islands

LEGAL ADVISERS TO N. M. ROTHSCHILD & SONS LIMITED Ashurst, Morris, Crisp & Co.. Broadgate House, 7 Eldon Street, London EC2M 7HD.

STOCKBROKERS Cazenove & Co., 12 Tokenhouse Yard, London EC2R 7AN.

RECEIVING BANKERS

National Westminster Bank PLC, New Issues Dept., PO Box No. 79, 2 Princes Street, Loodon EC2P2BD.

INTRODUCTION

Biotechnology, which can be defined as the application of biological organisms, systems and processes to industry, is not new. The use of micro-organismal marks at application of biological organisms, systems and processes to industry, is not new. The use of micro-organismal marks at a processes to industry, is not new. The use of micro-organismal marks at a processes to industry as a security of the description of the product of the processes of the product to be included from one organism and systeed in one the generic material of another, enabling the latter to synthesise large quantities of a product which it would not naturally make.

Another biotechnological technique, developed in 1975, involves the fusion of natural antibody-producing cells with cultured tumour cells, making what are called hybridomas. These produce large monums of highly specific monoclonal antibodies, which have already improved diagnostic testing and purification processes and may lead to methods of directing drugs to particular disease centres in the body. A second emerging diagnostic technique utilises labelled fragments of synthetic DNA, known as DNA hybridisation probes, to identify specific gene sequences.

Biotechnology also encompasses the use of enzymes, which are complex organic catalysts that are essential for the numerous elemical reactions which occur in living organisms. Genetic engineering permits the development of new and improved enzymes which can be used in a variety of manufacturing processes. In another area, advances in biochemical engineering and process control have led to substantial increases in efficiency in the fermentation

These and other recent developments in biotechnology provide enormous potential both to replace conventional These and other recent developments in rotectionology provide enormous potential both to replace conventional manufacturing processes and to develop entirely new products over a wide range of industries. Already genetically-engineered human listilin has reached the market and tests based on monoclonal antibodies are now available for the more rapid diagnosis of some forms of cancer and certain infections diseases. The recently lottoduced sweetner, separame, is the combination of two amino acids that can be produced in bulk using enzymatic processes. Among other products currently being developed using recombinant DNA technology are human growth hormone, more effective vaccine against bepatitis B and a blood-flotting agent for haemophiliacs. Known as Factor VIII.

known as Factor VIII.

There are many other examples of how the "new" biotechnology is likely to have a substantial impact not only on human and animal beath care but also in areas such as food processing, chemicals, energy, waste treatment and pollution control. Perhaps the application of biotechnology that will eventually prove to be the most important is in plant genetics, because of the possibility of increasing the world's food supply. Plant breeding by classical methods has a fong history of outstanding success bat is inevitably a slow process because of the relatively long reproductive period of plants. The application of novel techniques to bypass natural genetic barriers, as well as gene manipalation, is only just beginning, but it now seems possible that methods will be developed to breed plants that are, for example, more resistant to disease and drought and which can be grown in areas currently unsuitable for sericulture.

agriculture.

Investment opportunities in biotechnology cover a broad spectrum of companies around the world, both quoted and unquoted. These range from large, well-established companies where the involvement in biotechnology currently represents a relatively insignificant part of the companies' activities, but where its potential strategic impact is important, to small, research-based organisations totally committed to biotechnology developments, where the risk and reward are proportionately greater. There are a number of companies that fall between these extremes, including those involved in such areas as fermentation equipment and laboratory instrumentation.

The Company has sought to achieve an appropriate overall balance in building up its portfolio. Brief details of the Company's quoted intestments as at 20th March, 1984 are set out in Appendix A and of its inquoted and restricted investments as at that date in Appendix B. Of the nineteen inquoted or restricted investments, ten are in the broad area of bealth care, four in agriculture, two in laboratory instrumentation and equipment and one each in chemicals, mineral processing and waste treatment.

There are also exciting investment opportunities involving applications of high technology in the medical field.

chemicals, mineral processing and waste treatment.

There are also exciting investment opportunities involving applications of high technology in the medical field which, although allied to biotechnology, do not always incorporate biological processes. Some examples are diagnostic instrumentation, imaging equipment, implantable infusion pumps and drug defivery systems. The Company therefore recently obtained shareholders' approval for a limited proportion of the Company's assets to be available for investment in this specialised area of health science, without prejudicing the Company's fundamental long-term commitment to biotechnology.

INVESTMENT POLICY

The Company was established to allow investors to participate in one of the major technological revolations of the twentieth century. It raised US\$-6m. in June, 1981, mainly from UK institutional investors, and is the leading investment company specialising in biotechnology. Its investment objective is long-term capital appreciation by investing in quoted and unquoted companies anywhere in the world that are involved to any aspect of biotechnology or, to a certain degree, health science. The balance of the Company's assets between quoted and unquited investments depends on the availability of suitable opportunities but it has always been the intention that the greater part of the assets will be invested in securities which are initially imquoted. These have been, and are likely to continue to be, venture capital investments which involve taking equity stakes either in new companies or to those at an early stage of development. These companies should not be expected to produce significant profits for several years and may well require additional funding during the course of their development.

No investment will represent, at the time that it is made, more than 20 per cent. (and in normal circumstances more than 10 per cent.) of the Company's net assets. It is the Company's normal policy to purchase mit more than 20 per cent. of the equity of any company.

The evaluation of unquoted investment proposals is carried out with the assistance of five eminent scientists who have been retained by the Company as consultants. Additional consultants are likely to be appointed. Reports are also commissioned from other experts when necessary. The evaluation is based on the following criteria. First, the company under review should not only employ scientists of high calibre but also first-rate business managers able to company under review should not only employ scientists of high calibre but also first-rate business managers able to develop n successful commercial venture. Secondly, the company's business plan should clearly define its research and product areas and contain both a market analysis and n realistic assessment of the compention. Thirdly, there must be n potential rate of return in line with the risk falken, the Company's intention being to seek a much higher than average return on each unquoted investment within three to seven years from the date of investment, than average return on each unquoted investment within three to seven years from the date of investment. Fourthly, if an investment is to be made by the Company in conjunction with or investors, one member of the Fourthly, if an investment is to be made by the Company in conjunction with cases of the company has played investing group should have the responsibility of monitoring the venture. In some cases the Company has played this role. Lastly, there must be a prospective method of realising the investment. This would normally be through a public share usue.

puttic share issue.

It is the Company's general policy to retain an investment in companies which have obtained a public quotation, It is the Company's general policy to retain an investment in companies which have obtained a public quotation provided that adequate future growth is envisaged. The Company takes an active part in the affairs of the unquoted companies in which it has invested, including, in many cases, representation at board level. It does not, however, seek either managerial or legal control of any company in its portfolio.

## REASONS FOR THE OFFER

Since it was established, the Company has received more than 200 proposals for investment in unquoted companies and a number of these are currently under review. The Directors expect there to be a continuing flow of investment and a number of these are currently under review. The Directors expect there to be a continuing flow of investment and a number of these are currently under review. The Directors expect there to be a continuing flow of investment to take proposals and feel that it is in the Company's interest to raise further capital in order to be in a position to take proposals and feel that it is in the Company's interest to raise further capital in order to be in a position to take proposals and feel that it is in the Company is interest to raise further capital in order to be in a position to take proposals and feel that it is in the Company is interest to raise further capital in order to be in a position to take

While rapid charges in science and technology present attractive opportunities for investment in companies in the While rapid charges in science and technology present attractive opportunities for investment in companies in the fields described above, special risks are often associated with such companies. They may spend naubstantial part of their resources on research and development (which may be commercially unproductive), or require the injection of further loads to eaploit the results of their work. New processes and products may not be commercially viable or of further loads to eaploit the results of their work. New processes and products may not be commercially viable or further loads to eaploit the results of their work. New processes and products may not be commercially viable or further loads to eaploit the results of their work. New processes and products may not be commercially viable or further loads to eaploit the results of their work. New processes and products may not be commercially viable or further loads to eaploit the results of their work. New processes and products may not be commercially viable or further loads to eaploit the results of their work. New processes and products may not be commercially viable or further loads to eaploit the results of their work. New processes and products may not be commercially viable or further loads to eaploit the results of their work. New processes and products may not be commercially viable or further loads to eaploit the results of their work. New processes and products may not be commercially viable or further loads to eaploit the results of their work. New processes and products may not be commercially unproductive.

Valuation practice on their securities at the time of investment will be sustained by continuing investor demand. It is a consequence of the investment policy referred to above that a significant proportion of the Company's investments are and will continue to be to companies whose securities are not publicly traded or freely marketable investments are and will continue to be to companies whose securities are not publicly traded or freely marketable and may therefore be deficult to realise. Exchange rates are impredictable and could have a significant impact on and may therefore be deficult to realise. Exchange rates are impredictable and could have a significant impact on the value of the Company's investments. The marketing of many of the products manufactured by companies in which the Company is invested will require the continuing approval of regulatory bodies.

It must be emphasized, therefore, that investment in the Company should be regarded both as long-term and as carrying a high level of financial risk.

SUMMARY

The information set out below should be read in conjunction with the full text of the Prospectus.

Biotechnology Trivesting its Limited was formed in 1981 to enable investors to purchase shares in a company Softeemology Investments Limited was formed in 1981 to enable investors to purchase snares in a company whose main objective was, and remains, investment in the rapidly developing area of biotechnology. The Company now has a portfolio of 37 investments with an aggregate value of US\$49.6m. (£34.5m.) as at 20th March, 1984. This includes 19 unquoted or restricted investments representing 60.4 per cent. by value of the total portfolio. Investments to the USA comprise 60.4 per cent. by value of the portfolio, and those in the

## NET ASSET RECORD

Shares were initially issued by the Company in June, 1981 at US\$10.00 per Share. The following table

illustrates the subseque	ent moveme	nt in the (	Comp	any's net asset value per sha	ıre:—
1981		USS	_	1983	USS
30th November		10.39		31st May	13.50
1982				30th November	13.47
31st May		10.79 .		1984	
30th November		11.01		20th March	13.24 (4

A summary of the Net Asset Value per Share as at 20th March, 1984 is set out in Appendix C For the purposes of computing the Company's net asset value per share, the discount applied in respect of restricted investments on and before 30th November, 1983 was 33½ per cent, and not the current rate of restricted investments on and before 30th November, 1983 was 35% per cent, and not the further rate of 25 per cent. Further, the discount was applied in respect of the Company's entire holding of restricted investments and not just such part of the holding as comprised restricted shares (see note below on restricted investments under the heading "Existing Portfolio"). If the latter discount had been applied on 30th November, 1983 and only to the restricted shares, the net asset value per share on such date would have been US\$13.73. The effects on the net asset value per share in previous periods are not considered material.

The Offer for Subscription is being made at a price determined by reference to the sterling equivalent of the Net Asset Value per Share as at 20th March, 1984 after provision for the payment of an interim dividend on 31st May, 1984. The calculation of the Net Asset Value has been prepared by the Managers on the basis of the guidelines set out in the paragraph headed "Valuation of Investments" but no assurances are given that the Company's assets could have been realised at such values on such date. The Company's Auditors have reviewed the procedures applied by the Managers in computing such Net Asset Value per Share and have inspected the underlying documentation.

Offer Price Net Asset Value per Share as at 20th March, 1984	£ 9.15 US\$13.24 (£9.21)
Net Asset Value per Share as at 20th March, 1984  (adjusted for interim dividend)	US\$13.14(£9.14)
Net Asset Value per Share as at 20th March, 1984 (adjusted for the issue and interim dividend)	US\$13.00 (£9.05)

RISK FACTORS Attention is drawn to the paragraph headed "Risk Factors" below. It must be emphasised that investment in the Company should be regarded both as fong-term and as carrying a high level of financial risk.

PROCEEDS OF THE ISSUE The net proceeds of the issue are estimated to be US\$25,350,000, assuming that the 1/6 per cent. commission referred to in "Procedure for Application" below is paid in respect of all subscriptions for Shares. The proceeds will be used to further the Company's lovestment activities.

CURRENCY OF ACCOUNTS

## The Company draws up its financial statements to dollars, its principal operating currency.

# Except as otherwise expressly stated, for the purpose of calculating the Offer Price and in stating currency equivalents in the Prospectus, currency has been translated at £1.00 = US\$1.437, being the spot exchange rate quoted to London at the close of business on 20th March, 1984.

PREFERENTIAL APPLICATIONS

Preference will be given to applications from shareholders of the Company on the Register at the close of business in Guernsey on 28th March, 1984 for up to a total of 400,000 Shares (representing 20 per cent. of the Shares being offered for subscription).

## TIMET

CTABLE	
Subscription lists open	12th April, 1984
Basis of allotment announced	13th April, 1984
Letters of allotment despatched	<b>18th April</b> , 1984
Dealings commence	19th April, 1984
Last day for splitting	13th June, 1984
Last day for registration of repunciation	15th June, 1984
Definitive share certificates despatched	13th July, 1984

## EXISTING PORTFOLIO

Some 60.4 per cent, by value of the existing portfolio of 37 investments are in the USA and 12.7 per cent, in the UK. Brief details of the Company's investment portfolio are set out to Appendices A and B. The following table categorises the investments currently held by the Company by marketability and geographical

	Valus 20th M	Percentage by value	
	USS		
Quoted US Other	6,297,625 13,322,034	4,382,481 9,270,726	12.7 26.9
Unquoted US UK	12,596,949 6,301,027	5,766,144 4,384,848	25.4 12.7
Restricted* US	11,071,663	7,704,706	22.3
Total US UK Other	29,966,237 6,301,027 13,322,034	20,853,331 4,384,848 9,270,726	60.4 12.7 26.9

Since the Company commenced business in June, 198f it has invested in 16 unquoted companies and one testricted investment. Five of these unquoted companies in the USA have subsequently obtained stock market quotations and are now restricted investments. Details of these five companies are set out below:—

Company	Date of Purchase	Cost	Date of faitiaf Public Offenns	Valuation as at 20th March, 1984 US\$	
	- 14 -	US\$	a de lite d'action p		
Amgen, Inc.	June, 1981	515,001	June, 1983	768,984	
Applied Biosystems, fne.	Sept., 1981	700,625	June, 1983	4,530,488	
DNA Plant Technology Corporation	April, 1982	999,025	Jan., 1984	1,065,624	
1mmunex Corporation	Oct., 1982	752,302	July, 1983	1,236,820	
Integrated Genetics, Inc.	Feb., 1982	1,000,000	July, 1983	1,105,247	

"Note: A restricted investment is an investment in the shares of a US company which has become publicly quoted but where all or part of the Company's holding of such myestment is subject to restrictions on sale. The shares subject to such restrictions ("restricted shares") are valued at a discount (currently 25 per cent.) to the bid price of fully marketable shares of that company. Since this discount is applied only to the restricted shares, the overall discount applied to the restricted investment will be less than 25 per cent. to the extent that the holding comprises shares which are not so restricted.

## PRO-FORMA STATEMENT OF NET ASSETS.

A pro-forms statement of the net assets of the Company as at 20th March, 1984, adjusted to take account of the net proceeds of the issue and the interim dividend, is set out below:—

	USS	USS
Investments Ouoted, at market value Unquoted and restricted, at Directors' valuation	39,619,659 29,969,639	49,589,298
Current assets Debtors and prepayments Certificates of deposit and bonds Bank balances	232,440 10,177,048 27,659,532 38,069,030	47,000,000
Current liabilities Creditors and accrued charges Interim dividend	367,887 460,000 847,587	
Net current assets		37,221.133
Preliminary and listing expenses less amount amortised		39,282 86,849,713
Deferred liability Incentive fee		1,061,887 85,787,826
Financed by:— Share capital Reserves		132,000
Share premium, Capital reserve General reserve	71,216,000 10,689,822 3,748,004	85,655,826
		A STATE OF THE PARTY OF THE PAR
		85.757.876

The Company's income consists of interest on funds deposited pending investment and dividends received from portfolio companies. The Company's policy is to distribute the whole of this income after making provision for expenses and for reserves to prevent undue fluctuation in the level of dividend from year to year. For the period ended 31st May, 1982 income available for distribution was US\$576,481 and for the year ended 31st May, 1983 it was US\$658,734. In both periods a dividend of 10 cents per share was declared at an annual cost to the Company of US\$460,000. An interim dividend in tespect of the year ending 31st May, 1984 of 10 cents per share, also costing US\$460,000, bas been declared and will be paid on 31st May, 1984 to shareholders on the register at the close of business in Guernsey on 28th March, 1984. It is not intended that any further dividend will be paid in respect of the year ending 31st May, 1984.

Save as foresaid, dividends are usually paid in September of each year. The first dividend in respect of the enlarged share capital is expected to be paid in September, 1985. The Directors intend that the dividend policy described above will be maintained in subsequent years. However, as the Company's funds become more fully invested in securities which pay little or no dividend, it is anticipated that the level of dividend paid to shareholders will full.

The members of the Board of Directors, all of whom are non-executive, are as follows:-

Lord Rothschild (aged 73 years) (Chairman) is a non-executive Director of N. M. Rothschild & Sons Limited. He was formerly Research Co-ordinator of the Royal Dutch Shell Group and Director General of the Central Policy Review Staff of the Cabinet Office. He is also a Fellow of the Royal Society.

James Blair (aged 44 years) is a Managing Director of Rothschild Inc., where he has been involved in renture capital investment for six years including three years in biotechnology venture capital investments. Sir Edwin Leather (aged 64 years) is a former Governor of Bermuda and an executive Director of N. M. Rothschild Services (Bermuda) Limited.

David Leathers (aged 41 years), a Chartered Accountant, is an executive Director of N. M. Rothschild Asset Management Limited, with whom he has been an investment manager for eleten years. He has been actively Management Limited, with whom he has been an investment unanager who involved in biotechnology venture capital investment for the last three reats.

Donald Lines (aged 52 years) is Chief General Manager of The Bank of Bermuda Limited and a Director of Bermuda Shield Trustee Company Limited.

Nicolas McAndrew (aged 49 years) is a Managing Director of N. M. Rothschild & Sons Limited, the Managing Director of N. M. Rothschild Asset Management Lamited, Chairman of N. M. Rothschild Asset Management (C.I.) Limited and a Director of Rothschild Inc. David Padwa (aged 52 years) is Chairman of Agrigenetics Corporation, of Boulder, Colorado, USA. Edward Ziff (aged 41 years) is Professor of Biochemistry at New York University Medical Centre and is one of

The overall responsibility for the management of the Company and for determining and reviewing the Company's investment policy is vested in the Directors.

# **Biotechnology Investments Limited continued**

The Company has appointed N. M. Rothschild Asset Management (C.1.) Limited (the "Managers") to manage the investments of the Company and to undertake the Company's administration (subject to the overall supervision and control of the Directors) and to act as its Registrar. The Managers act as the managers of substantial wait trusts and other straights for the Company in the Managers act as the managers of substantial wait trusts.

The Company has appointed N. M. Rothschild Asset Management Limited (the "Tavestment Advisers") as advisers to the Company and the Managers as to the investment and reinvestment of the Company's investment portfolio. The Investment Advisers have wide experience in the field of investment management and strong international ronocctions. Funds under management by the Investment Advisers as at 31st December, 1983 totalled approximately £3,000 to.

The Company has appointed Rothschild Inc. ("RINC") to advise on ventore capital asyestments in the USA and, if requested, in other area. RINC and its predecessors have been active in venture capital and special situation investments for over thirty-five years, during which period advice has been given on venture capital investments exceeding US\$200m. in over 100 companies.

RINC acts as investment adviser to other funds which are engaged in venture capital investment (though not in such a specialised field as the Company) and may co-ordinate the investment of the Company's assets with investments made by such other funds. However, in such circumstances, the Company has the option to acquire up in 50 per cent of the securities in bottechnology companies made available for investment by the funds which RINC advises. RINC, its alfiliates and their respective transperients toay also participate in toestments in portfolio companies. The services of the Managers, the Investment Advisers and RINC are provided pursuant to agreements, details of which are given to Sections 3(1). (ii) and (iii) of "General Information" below. Further information on the Managers, the Investment Advisers and RINC is given as Sections 7, 8 and 9 of "General Information" below. PREPARATION OF REPORTS AND ACCOUNTS

The audited accounts of the Company are prepared annually to 31st May. Half-yearly reports are published in respect of the period to 30th November in each year. Copies of all reports and accounts are sent in shareholders.

The General Morting of the Company is held annually in Guernsey. Notice convening this General Meeting is forwarded to shareholders, together with the annual report and accounts of the Company, normally in July of August of each year and in any event giving not less than 21 days' conce of the Meeting.

MANAGEMENT FEES AND EXPENSES The Company pays the following fees to the Managers: -

tal 13 per cent, per annum, payable semi-annually, of the value of the net assets of the Company.

(a) 13 per cent, per annum, payable semi-annually, of the value of the net assets of the Company.

(b) An incentive fee equal to 20 per cent of any net increase in the value of the Company's unquoted investments during an accounting period, after taking into account any net reduction in value carried forward from preceding accounting periods, finestiments which, when acquired, were unquoted but subsequently become quoted one stock exchange will continue to be treated as unquoted for the purpose of calculating the incentive fee, unless quotation occurs within six months of the date of acquisition. Such incentive fee will be calculated and will accrue on each bafance sheer date but will only become payable when there are sufficient liquid resources. No incentive fee will, in any case, be paid before the end of the fifth financial year of the Company (3)st blay, 1985) and thereafter the fee will only become payable when the net asset value per share (after taking into account such accrued fee) has exceeded USS15. In any event, off will be paid, the balance being carried forward to the following year. This amount will be available to offset the effect on the intentive fee of any future net reduction in the value of the Company's unquoted investments or as an addition to any amound of incentive fee calculated for that year, when 50 per orn, of the aggregate of such amounts will be payable, the balance being carried forward on the same basis.

The Managers are responsible for paying the fees of the Investment Advisers and RINC (the Venture Capital Advisers), and the fees of Rothschilds to connection with their appointment to advise on enquoted investments below).

The Company bears the out-of-pocket expenses of the Managers, the Investment Advisers and RINC. In addition, the Company bears all other operating expenses and brokerage, including the fees and expenses of the Directors, the Secretary, the Custodian, the Auditors, the consultants and the members of the Valuation Advisory Board (see

Further information on fees and expenses is given to Section 4 of "General Information" below.

VALUATION OF INVESTMENTS

Valuations are prepared in accordance with the following guidelines (which are not intended to be exhaustive):-

(a) Quoted investments Fully toarketable shares listed or dealt to on a entional securities or stock exchange or the US over-the-counter market, are valued at the bid price on such exchange or market.

Original investments. These are initially valued at cost. A reduction in the valuation of an unquoted investment is made if considered appropriate in the light of a company's condition or prospects. Increases to value are in normal circumstances only made if substantiated by significant transactions in the relevant company's shares by third parties. (r) Restricted investments

Restricted investments
A restricted investment to ay consist wholly of restricted shares (as defined to the note to the paragraph headed
"Existing Portfolio") or partly of restricted shares and partly of shares that are not subject to restrictions on
sale, Restricted shares are currently valued at a discount of 25 per cent, to the bid price of marketable shares to
the relevant company. Shares in such a company which are not subject to restrictions on sale are valued on the
same basis as described in (a) above.

The discount applied has been reduced from 33% per cent, to 25 per cent, since 1st December, 1933 with the approval of the independent Valuation Advisory Board (referred to below) as this is now considered to be the appropriate discount to be applied in valuing restricted shares in biotechnology companies. (d) Limited partnership interests
These will initially be valued at cost ontil the Company has satisfied its investment commitment to the
partnership. Thereafter, such interests will be valued by reference to the net asset value of the partnership.

(c) Cash, certificates of deposit and bonds

Cash is valued at its current dollar equivalent, Certificates of deposit and bonds are valued on the basis of the current yield of certificates of deposit and government bonds of similar size, credit status and maturity.

Investments denominated in currencies other than dollars are translated ion dollars at the spot rate of exchange ruling on the valuation date.

runng on the valuation date.

The Managers are responsible for preparing valuations of the Company's investments for approval by the Directors. RINC, in their capacity as Venture Capital Advisers, provide the Investment Advisers and the Managers with recommended valuations for each of the unquoted and restricted investments held by the Company based upon the foregoing guidelines, subject to such adjustments as may be applicable in particular circumstances. These valuations are reviewed by members of an independent Valuation Advisory Board appointed by the Directors. The members of the Valuation Advisory Board are regarded by the Directors as having expertise in the valuation of unquoted investments as a result of their experience in funance and industry. The Directors, having regard to the recommendations of the above-mentioned parties, value the investments, and their valuation, together with the other information provided by the Managers, forms the basis of the half-yearly and annual accounts.

The Directors do not envisage making use of the borrowing powers available to the Company, detailed in Section 6 of "General Information" below, save in exceptional circumstances, or as a means of acquiring an investment denominated in a currency other than dollars when the appropriate currency may be borrowed against the deposit of

TAXATION - THE COMPANY

The Company has not incurred, and it is not expected that the Company will incur, any tax in Guernsey other than Guernsey corporation tax, the current rate of which is £300 per annum.

uct of the at its of the Com resident to the UK and that it would not be deemed to be a close company it it were so resident.

Investment income received by the Company is subject to any withholding tax deducted to the relevant country of

Under the US Foreign Investment to Real Property Tax Act ("FIRPTA"), the Company may be liable to US taxation at a maximum rate of 28 per cent, on a disposal of its investment at a US corporation it at any time thring the five years prior to the disposition more than 50 per cent, in value of the US corporation's business assets consisted of US "erast property" (as defined in FIRPTA). While the Company does not intend to invest in companies that invest principally in US real property, the provisions could apply, for example, to an investment to a company that owns real property for use in its business activities.

It is possible that FIRPTA may require non-public reports to be filed by the Company disclosing the identity of some of its larger shareholders. The rules governing such reports have not been finalised, but the Company intends to take all reasonable steps available to avoid such disclosures.

- TAXATION - THE SHAREHOLDERS

Shareholders (other than residents of Guernsey, Alderney and Herm) are not subject to any tax in Guernsey in respect of any Shares owned by them. Guernsey income tax is, however, deducted from dividends payable in respect of Shares held by or on behalf of residents of Guernsey, Alderney or Herm. There is at present no Capital Gains Tax, Estate Duty or Capital Transfer Tax in Guernsey.

of Shares held by or on behalf of residents of Guerusey, Alderney or Herm. There is at present no Capital Gains Tax, Estate Duty or Capital Transfer Tax in Guerusey.

Clearance has been obtained from the Board of Inland Revenue of the UK under Section 464 of the Income and Corporation Taxes Act 1970 that the provisions of Section 460 of that Act (cancellation of tax advantages from certain transactions to securities) will not apply in the issue of Shares or subsequent disposals by shareholders (except to the case of a sale to a company in which the vendor has a substantial interest).

The attention of individuals ordinarily resident in the UK is drawn to Section 478 of the Income and Corporation Taxes Act 1970 and to Section 45 of the Finance Act 1981. These contain provisions for preventing avoidance of income tax by individuals by transactions resulting to the transfer of income to persons (including companies) abroad and may render them liabla to taxation is respect of undistributed income and profits of the Company.

The Inland Revenue has issued details of provisions proposed in be enacted to the Finance Act 1984 which will have affect as from 1st January, 1984 which will charge gains made by UK taxpayers on realizations of investments in certain offshore funds to tax at rates applicable to income. After consultation with the Inland Revenue, the Directors believe that this new legislation, when it is enacted, should not apply to the Company or its shareholders. In consequence, gains realized by UK taxpayers on disposals of Shares in the Company by way of a sale on The Stock Exchange or otherwise should continue to be charged to tax at the rates attributable to capital gains.

Further changes in the law are proposed which, with effect from 6th April, 1984, may subject certain UK companies to tax on the profits of a companies, not so resident, in which they have an interest. The proposals will affect UK resident and which does not implement full distribution policies. Although the position is not per clear,

Prospective investors should accertain from their professional advisers the consequences of acquiring, heiding and disposing of Shares under the relevant laws of the jurisdictions to which they are subject, including the tax consequences and any exchange control requirements.

ACCOUNTANTS' REPORT

The following is a copy of a report received by the Directors from Peat, Marwick, Mitchell & Co., the Andlitors and Reporting 10 Lefebvic Street, St. Peter Port

22nd March, 1984 gy Investments Limited (the "Company") was registered in Guernsey on 16th April, 1981 and one ned the audited accounts of the Company for the period from 12th June, 1981 to 30th No

The summarised revenue accounts and balance sheets set out below are based on the amifted accounts of the Company after making such adjustments in we consider appropriate. No accounts of the Company have been prepared since 30th November, 1983. In our opinion these summaries, which have been prepared on the basis of the accounting policies set out below, together with the notes thereon, give a true and fair way of the state of affairs of the Company at 30th November, 1983, and of the nex revenue of the Company at 30th November, 1983, and of the nex revenue of the

As referred to in Note 1(g), the Accounts do not include a statement of source and application of lunds as required by International

Accounting Standard No. 7 for the reasons stated therein, with	which we concur.		
REVENUE ACCOUNTS	6 months in 30th November, 1983 USS	Year ended 31st May, 1983 USS	12th June, 1981 to 31st May, 1982 USS
Stevense (Note 1) Dividents receivable	33,212	86,099	38.624
Interest receivable	992.042	2,182,405	1,960,691
	1,025,254	2,266.504	1,999.315
Expenses (Note 2)	539,390	1,000,723	876,278
Management for	46,234	92,633	75,110
Castodian foo Secretarial foe	500	1,000	1.000
Directors' fees	15,728	37.578	36,127
Auditors' remuncration	2.91è	6,410	3,580
Consultants' fets	- 23,061	38,557	133,459
Gostney corporation tax	437	481	990
Other expenses	53,440	152,708	96,604
	681.706	1,410,085	1,223,148
Net revenue after taxation	343.548	858,419	776,167
Amortisation of preliminary and listing expenses (Note 1)	99,843	199,685	199,666
Cazzied forward	243,705	658,734	576,481



	6 months to 30th November, 1983 USS	31st May., 1983	
Brought forward	243,705	668,734	576,481
Dividend		460,000	460,000
	243,705	198,734	116,481
Belance brought forward	315,215	116.481	
-	558,920	315,215	116,481
Earnings per chare (Note 3)	Screets	19 cents	17 cests
Dividend per share	_	10 cents	· · 10 cents
BALANCE SHEETS	30th November (155	er, 1983 USS	31st May, 1983 USS USS
Livestments (Note 1)			
Quoted, at market value (Note 4)	20,785,867		15,676
Unquoted and restricted, at Directors' valuation (Note 3)	26,870,884		9,386 · 33,665,06
Correct esects Debuss and prepayments	119.526	•	N.715
Certificates of deposit and bonds (Note 1)	13.208,828		14,113
Rank balances	2,307,024	3.8	5.402
	15.725,378	29,54	11,230
Correst Rabilities	65 L167	9	26.973
Creditors and accreed charges Proposed dividend	@ I'191	_	50,893
rropeled dividend	451,167	1.2	6,973
Not convent assets	15,	074,211	28,554,25
Preliminary and fisting expenses ess amount amortised	-	99,843 839,805	199.66
Deferred Sub-Sirv			
morning for (Note 8)		961 JR90 977,945	2,002,64
Financed by:— Share capital (Note 6)		90,000	92,00
Reserves Share premium (Note 71	45,908,000	45,9	000,90
Capital reserve (Note 8)	21,610,823		6.445
General reserve (Note 9)	3,808,212		06,987
Revenue account	.538,920		15.215
	61.	885.955	61.996.64
	61.	977.995	CARLS
		S\$13.47	. 118813.9

1 ACCOUNTING POLICIES

(a) Historical cost convention

The accounts have been prepared under the historical cost convention adjusted where appropriate by the revaluation of investigation. (b) Valuation of pressureray

1. Quoted stressments are valued at the bid price on a recognised stock exchange

1. Outsto investments are valued by the Directors on the recognisan store venture.
2. Unequated investments are valued by the Directors on the recommendation of an independent Valuation Advisory Board is vesued with the authority in recommend to the Directors valuations of the Company's nequated and asstricted investments. The policy followed by the Directors and the Valuation Advisory Board is to be less enquated and asstricted investments. The policy followed by the Directors and the Valuation Advisory Board is to besee enquated investments at east unless there has been a chear indication that there has been a charge to the company's situation. Cost in most instances will not necessarily reflect a direct interest in tampible assets of an anneasing many not therefore represent the amount which neight ultimately be realised on disposal, Any increase in the valuation of unspected investments is an normal canonication of the output of the polytical and the discretion of the Directors on the recommendation of the Valuation Advisory Board to reflect changed conflictors within the company.

2. Restricted investments (i.e. investments which have obtained a US public quotation but where all depart of the Company's holding is subject in certain findations on sale) are valued by the Directors, on the recommendation of the Valuation Advisory Sound, at a discount to the bid price of surfaceable shares in the relevant company.

4. Limited partnership interests are valued at one until the Company has satisfied its investment commitment to due relevant permanents. Thereafter, such as interest is valued by reference to the per asset value of the partnership.

 Certificates of deposit and boads are valued by the Directors in consultation with the Investment Advisers on the besis of the current yield of certificates of deposit and government boads of similar size, credit mates and materiay. of certainments of corporal and governments nament of gabru and losses on sale of its extruents presuments sold in determined on an average cost basis for purposes of calculating gains or losses on sale,

tel Surpluses entering on configures of deposit and bonds Surpluses arising from the desposal prior to manufity of abort term investments in certificates of deposit and bonds are dealt with through general reserve.

through great with the control of th (f) Revenue
Dividends on investments and interest on bank deposits and bonds are included on a receivable basis. Interest on certificates of deposit
is included where they are beld to manurity.

(g) Statement of source and application of funds
A statement of source and application of funds, as required by International Accounting Standard No. 7, is not included in these
Accounts. In the opinion of the Directors, such a statement has link relevance to this Company.

(b) Foreign currency amesimizes

Assets and Sabitotes expressed in foreign currencies are translated into USS at the rate of enchange ruling at the Balance Sheet date.

Revenue Account items are translated into USS at the rate value at the inte of the transaction. 2 EXPENSES OF MANAGEMENT

(a) Management feet.
Under an agreement dated 19th May, 1981, an amended, N. M. Rothschild Asset Management (C.1.) Limited were appointed us the Managers, subject to the overall supervision of the Disectors and with powers of delegation, to manage the Company's administrative effects, to act m its Registrar and so manage the Company's investments.

(b) Consolies for Under an approximate of 19th May, 1981, as amended, N. M. Rothschild & Sons (C.I.) Limited was appointed as the Challochist to be responsible for the century of the Compley's investments.

3 EARNINGS PER SHARE

The calculation of environs per share is based on net revenue after transion (before transition of prefindancy and fining expanses) and 4,600,000 Ordinary Shares of 2 cents each in instac. 4 QUOTED INVESTMENTS At 30th November, 1963 the Company held 15 quoted investments with an aggregate market value of US\$30,785,867.

5 UNQUOTED AND RESTRICTED INVESTMENTS The Company held the following anquoted and restricted investments at 30th November, 1983:-

	tan g and	USS	1983 US\$	company
Advanced Mineral Technologies, Jos.	250,000 Conversible Preferred	250,000	250,000	25.0
Agrigenetics Corporation	124,627 Commun	1.434.807	1.246.270	12
Ampra, Inc."	128,750 Common	· 515,001	593,486	. 1.1
Applied Biosystems, Inc.	295,000 Common	700,625	.3.508.288	5.0
Catalytica Associates, Juc.	571, 430 Conveniente Preferred	1,000,002	1,000,002	10.4
Cellveck Limited	1.780.090 Ordinary	5,017.664	4.566,590	11.1
CW Ventures	Limited perpensisty between	333,334	333,334	3.1
DNA Plant Technology Corporation	355,208 Common	999,025 .	999,075	2.9
Generic Systems Corporation*	450,000 Common	900,000	2,939,625	2.3
Genzyme Corporation	274.002 Converable Preferred	999,997	999,597	5.5
Immunes Corporation*	300.320 Common	752,302	1,307,994	5.0
Integrated Generics, Inc.	300.000 Common	1,000,000	3,206,000	3.6
International Flant Laboratories, Ice.	13,500 Common	567,000	567,000	5.1
Plant Genetics, Inc.	487,200 Convertible Preferred .	1,950,000	1.950.000	9.0
Queue Systems, Inc.	40,900 Conversible Preferred	500,000	500,000	6.0
Repligea Cosporation	330,000 Series 'A' Convertible Preferred 105.300 Series 'B' Convertible Preferred	2,012,500 1,000,350	3,325,000 1,000,350	7.5 2.2
WMC (Resource Recovery) Limited	782,500 Ordinary	598,400	987,023	25.0
		28.577.007	N. 170 M4	

ant of 33) per cent, was applied to the Costpany's holdings in restricted (a t. 30th November, 1963 but were subject to finitiations on sale. Stars 1st December, 1985, the Directors (with the approval of the independent Valuation Advisory Board) have decided to reduce the discount applied in respect of restricted investments from 33) per cent. to 25 per cent. The latter is now considered to be the appropriate discount to be applied in valuing restricted shares in biotechnology companies. On and before 30th November, 1900 the chacuter was applied in respect of the Company's entire holding of restricted investments and not jost such part of the holding as comprised restricted shares. Had the discount of 25 per cent, been applied at 30th November, 1900 and only to the restricted shares, the set asset value per share at world have been US\$13.73. The effect of the change of discount on the pet asset value per share at 31st May, 1933 is not considered to be swarped.

With the exception of the investment in CW Ventures, the equity interest represents the proportion of the share capital of each investment owned by the Company on a fully diluted basis.

investment owned by the Company on a fully disted besis.

All investments owned by the Company are either in the form of equity to are convertible into equity and the perceiving interest based on the exercise of all conversion and subscription rights by the Company and other parties. The investment in CW Venture the form of a tituded partnership interest where there is a consumment by the Company and the other partners.

The there is based on the full partnersh of this additional commitment by the Company and the other partners.

The there is Agrigmentics were still unquoted at 30th November, 1903, but a preliminary registration statement was fined shortly that date with the US Securities and Exchange Commission inflicating a price range for a proposed initial public offering of USS per share. The Directors therefore wheel the investment is apprended an USS file per share taking into account such proposed potenting. The shares in Agrigmentian are still acquoted at the date of this Report.

ion in the value of the holdings in Cellinch and WMC (Resource Recovery) solely reflect explainings rate a tive purchase dates and JOA November, 1983. 6 SHARE CAPITAL

Authorised 6,250,000 Ordinary Shares of 2 cents such 125,000 125,000 Lessed and fully paid 4,601,000 Ordinary Shares of 2 cents each. 7 SHARE PREMIUM 1963 USS Premium on initial issue of Ordinary Street. 45,908,000 8 CAPITAL RESERVE Unrestined en quos Movements during period ended 31st May, 1983 Movements during year ended 31st May, 1983 284,716 6,988,520 730,166 3,921,634 (181.125) 2,094,845 10,871,600 or at 3 lat May, 1983 7,273,236 (1,521,216) 371,777 5,752,020 6,348,676 Beliance at 30th November, 1983

Under an agreement dated 19th May, 1981, as amended, N. M. Rodneshid-Asses Management (C.J.) Limited receives an incentive fee based on the appreciation of less departation) of the Company's suspected investments during as accounting period. The incentive fee provided above is due for payment on 31st May, 1986 or on any subsequent 31st May provided that the net asset value per share of the Company as that time is not less than USS I after accounting the incentive for. At such time as the fee is due for payment only 50 per cont. of such accounted fee will be paid, the balance being carried forward to the following year. Belance at 30th November, 1983 (961.850) 11,610,823 9 GENERAL RESERVE Movements during period ended 31st May, 1982. Movements during your ended 31st May, 1983 1,240,495 1,161,230 (593,877) Balance at 31st May, 1983 Movements during period ended 30th November, 1983 3,537,016 271,194

ng commisment to invest a further US\$666,666 in CW Ventures, of which US\$338,333 is the for

Yours faithfully, Pest, Marwick, Mitchell & Co. Chartered Accountants.

- GENERAL INFORMATION

5.

P. CORPURATE STRUCTURE:
The Company was registered with limited liability in Guernsty on 16th April, 1961 under the provisions of the Companies (Guernsty)
Lyos, 1908 to 1973. The constitution of the Company is defined in its Memorius and an abstract of Association.
On incorporation, the Company had an authorized share capital of USS125,000 divided into 6,230,000 Shares of 7 cents each. In June, 1961, the Company hand 4,800,800 Shares of 2 cents each in USS10,000 Florer problem to acquired installments of USS5,00 on 12th
June, 1981 and on 27th November, 1961. All such Shares are now fully paid. The authorized share capital of the Company was increased by Ordinary Resolution, passed on 7th April, 1964, to USS150,000 divided into 7,500,000 Shares of 2 cents each. 1 CORPORATE STRUCTURE

2 ARTICLES OF ASSOCIATION The Articles of Association of the Company (which were amended with effect from 1st March, 1984) contain provisions to the following effect:

Appointment

The Directors may appoint managers and investment advisers of the Company's administrative affairs and the lowestment and reinvestment of the Company's investment advisers and may extrust to and confer upon such managers or investment advisers any of the functions, dunes, powers and discretions exercisable by them as Directors in relation thereto (other than the power to make asile or forfeit Sharest upon such terms and conditions including the right to remaineration public by the Company and which such powers of delegation and such restrictions as they think fit and either collaterably with or to the exclusion of their own powers.

provents of delegation and such restrictions or they think fit and either collaterally with or to the exclusion of their own powers.

The terms of any contract or archaegement current into by the Company appointing any sumagest eighnestment advisers fother than the original agreements entered into prior to the laddel lines of States), and any speciations goals after the inhibit issue of States to any such contract or agreement these in force (such diagonaly such original agreement), shall be subject to approval by an Octionary Resolution, PROVIDED TEAT to such approval shall be projunced should.

(a) the terms of any new arrangement emissed into for the appointment of save unargues, or pressurest advisers not differ materially from phase in force with the former representance of save unargues, or investment advisers, the missagers or investment advisers, the missagers or investment advisers, the missagers or investment advisers (as the case one to be customed that such variation is accessive or expedient busing regard to the provisions of any legislation normal or proposed or the Company, the Audisons, the missagers or investment advisers do the provisions and one variation does not materially projudice the missagers of the holders for the man being of shares or any of them and does not operate to release the missagers to an emergial extent from any segmentally of the association of save in a company and in a resonance of the company.

The Discretary was accessed as extended as the company and in a resonance of the company and in any order in a resonance of the case of the company and in a resonance of the case of the saveley of them and does not operate to release the missagers to any missage the case of the company.

(iii) The Discenses may appoint a custodium in the responsible for the safe custody of any of the amoretal the Company and to perform such other duties upon such terms as the Directors may determine. The regularization of any such custodium shall be provide by the Company. The terms of appointment of any such custodium may authorize such custodium to appoint (with powers of sub-delegation) and custodium to appoint custodium to appoint (with powers of the custodium may authorize such custodium to appoint (with powers of the custodium). The Directors may appoint consultants to advise the Company in commencion with the lowestment of funds by or on behalf of the Company and to perform such other duties upon such temps in the Directors may determine.

Share Copied.

By Ordicary Resolution the Company may inter shares with any special rights that the Company way determine, without projection the rights attaching to any existing theres. Dut Company may by Ordicary Resolution issue preference there on such terms as before such interest the Company by Special Resolution in may determine. If the three issue issue the Company by Special Resolution in may determine. If the three issue is not interest classes of shares, rights attaching an a particular class may be varied only by a three-quarters majority of that class consenting.

(iii) The Company may by Ordinary Resolution increase in 1905; it. 1905; it.

Before such some the Company may reliable their the share capital by such sum to be divided into such amount as it so re
Before such some the Company saxy reliable their the shares becaliered in existing members pro unta, and otherwise the new
rany be dealt with as if they formed part of the original end not be subject to all existing provisious relating to the st

(c) Rights as in Dividends

(i) The Company in General Meeting anny declare dividends to be paid out of the profits of the Company. Unless the rights and terms attached in any shares otherwise provide, all dividends to be their be declared and paid according to the amount paid upon the shares for respect whereof the dividend is paid (fost payment to advance of calls shall be ignored in determining the amount paid up). Dividends will be paid pro-remacencing to the amount paid up on the share during any particular paid particular pa

(d) Rights of Shareholders in a Winding Up (d) Right of Shareholders in a Winding Up
(i) In the event of a winding up the liquidator may, by Extraordinary Resolution, be authorised to divide among the members any part of the assets, and may vest any of the assets in trusies; upon trust for the benefit of the mambers as the liquidator thinks fit.

a season shall be distributed ratifishy according to the amount paid upon the shares (subject to the rights of the holders of six and with special rights). However, if expedient and with the accessory consents or sauctions, the liquidator may divide test other than in accordance with the existing rights of the members, and can exchade or garder any class.

season other than is accordance with the entiting tights of the members, and can exclude or grater any chain.

(c) Voting Riplan of Members

At General Meetings-every members persent in parson or by attenues afail have one vote. On a poll every person present in person or by attenues or by preary shall have one vote for each Shase beld by him subject to say special woring powers or respections for the time being attached to any states which may be subject to special conditions.

(f) Share Certificate:

(i) All members shall be entitled to a share cartificate for all thoses of one data. The Articles provide that where artificate to the power of the cartificate to one of several joint holders being sufficient delivery of a certificate to one of several joint holders being sufficient delivery to all such holders.

(ii) If a there confidence is defined, but or destroyed it may be reserved on such forms (if say) as to evidence and indemnity and the payment of our-of-pocket expanses of the Company of investigating evidence as the Board thinks [it.

(g) Calls and Instalment on shares and Forfeiture

(i) The Directors may from time to time by resolution make calls upon the members in respect of all or any attengy suppaid on their shares (whether on account of nominal whose as by way of premium) and not by the conditions of allotment thereof made psyable in fixed times. Each member shall, subject to receiving at least 28 days notice from the Company specifying the time or times and place of payment, pay to the Company at the time or times and place of payment, pay to the Company at the time or times and place of payment, pay to the Company at the time or times and place of payment appelled the amount railed upon his starres.

(c) The Directors shall not be required to accept any payment is advance of a call or, if they do so, to pay any interest thereon. (iii) Any sum called in respect of a share which is not paid on or before the date for payment shall (unless the Directors otherwise determine) attract interest from that date until the time of actual payment at such rare (unbeaucoding 20 per cost. per summ) as

the Directors may determine.

(e) In the case of joint holders the liability to pay a call and innerest thereon shall be joint and several. (v) The Company shall have a first and paramount lieu on every unpuld or partly paid share for all success called in capect thereof, and for all the debts and faultions of the holder thereof to the Company.

(vi) If a member fails to ony the amount of a call or any part thereof on the das date for payment, the Directors may at any time thereafter serve on him not less that 27 days' notice requiring payment thereof together with accrued interest on or before such twenty-secured day and at such place as is specified in the photoc, which shall also thate find to default the shares in question will be Bable to forfeiture.

twenty-accents day and as such place as it specified in the holico, which shall also state that to defend the third an question will be Bable to forefaiture.

(vii) If the requirements of the last mentioned notice are not complied with, the relevant shares may, at any than thereafter before payment has been made, be forefeited by resolution of the Board whereupon they may be sold, to allowed or otherwise disposed of in such person and on fact herma as the Directory thick fit.

(viii) A person whose theres have been forfeited shall coupe as he a member in respect of those shares but thall not withstanding the forfeitnur remain liable to pay to the Company all moneys payable by him to the Company lackning interest.

(c) Any state (whether on accessed of the internet) while of the starre or by way of persons which by the terms of issue of a shate becomes payable upon allounent or at any fixed data thail for all the purposes of the Articles be deemed to be a call duly unde and a propositionate desire on which which the transmitte becomes payables to the proposite of the foreign provisions of the Articles in the first of the state of the state of the state of the proposite of the Articles in decemend to be a call duly unde and a propositionate decrease and all the relevant provisions with the proposite of the state of the proposite of the call and the total and become payable by the proposite of the accordance with Chernery law;

The Articles of Association may be altered by treasured a Special Resolution of the Chernery paying pasted in accordance with Chernery law;

The Articles of Association may be altered by notate of a Special Resolution of the Company pasted in accordance with Guernery law-numbry by a excellation duly proposed and pasted at a Special Resolution by not less than three-quarters of the votes recorded at a Guernal Meeting of the Company and duly confirmed by an absolute assigned to votes recorded at a second General Meeting, held at the entitlest fifteen clear lays and at the latest thirty drys after the first General Meeting. To be valid, a copy of the Special Resolution confirmed by the Royal Court of Guernery and under the wall of the Company has to be sent to H.M. Greffler.

3 MATERIAL CONTRACTS usits emissed into in the optimisty course of huginess) here been entered into prior to the date of

The following contracts (not being contracts entered into in the optimizery course of business) have been entered into prior to the date of this document and are or may be quaterial—

(i) Management Agreement deted 19th May, 1981 (as assembled by a Leiter Agreement dated 8th July, 1983 and a Supplemental Agreement dated 22nd March, 1989) between (1) the Company and (2) the Managers whereby the Company appointed the Agreement duted Z2nd March, 1984) between (3) the Company and (2) the Managers whereby the Company appended the Managers, solvers to the dream? Supervision of the Directors and with powers of delegation, to manage the Company's administrative sitiars, to act as its Registers and to manage the Company's investment. The Agreement contains provisions indemnifying and exempting the Managers from Hability not due to their gooss negligence or wiful default. For the purposes of carrying out their duties under the Agreement vertain of the Interiors, duties, provers and discretions of the Directors are exercised by the Managers. In the event of the interiors of the Managers and Agreement, these functions, duties, provers and discretions, duties, provers and discretions of the Directors. The Agreement may be between the by either party giving to the other put less than 90 days written notice.

cascretions would revert to the Librectois. The Agreement may be actionisted toner alla by either party giving to the other pot less than 90 days' written notice.

(ii) Investment Advisory Agreement dated 19th May, 1981 and a Supplemental Agreement dished Zini March, 1984 between (1) the Company, (2) the Managers and (3) the Investment Advisors whereby the Company appointed the Investment Advisors tondays the Company on the relative statement of the Company is investment and to co-ordinate investment advisors from indication on behalf of the Company. The Agreement contains provisions indemnifying and enterpoint the Investment Advisors from indication on the confidence on which default. The Agreement may be termanated into allo by any party giving to the others not less than 90 days written notice.

(iii) Venture Capital Advisory Agreement dated 19th May, 1981 (as amended by a Letter Agreement dated 4th July, 1983 and a Supplemental Agreement dated 22nd blanch, 1984 between (1) the Company, (2) the Managers and (3) RINC (then known as New Court Securities Of America) as activities with monitor traquoted investments in the United States of America (and, if requested by the Company or the Managers, outside the United States of America) as activities relating to all forms in the Court of the propriet of the Court of the propriet of the Court of the propriet of the party and the party party of the monitors of the content of a suspection therewise. The Agreement contains provisions indomnifying and countrying RINC from liability not due to negligence or will default. The Agreement contains provisions indomnifying and countrying the other as the subject of the others and legs than 96 days written notice.

(17) Canadian Agreement dated 19th May, 1981 and a Supplemental Agreement dated 22nd March, 1984-between (1) that Company.

provisions indomnifying and occupining RINC from initiality not due to negligence or willed default. The Agreement may be terminated innovalitying and occupining RINC from initiality not due to negligence or willed default. The Agreement may be terminated innovality of the Managers and (3) N. M. Rochechild & Som (CL) Liquined (the "Custodian") whereby the Company appointed the Casnodian to be responsible for the custody of the Company's investment. The Agreement outsine provisions indomnifying and exampting the Casnodian to be responsible for the custody of the Company's investment. The Agreement may be terminated inter alia by any party giving to the others not less than 90 days' written notice.

(v) Secretary's Agreement dated 19th May, 1961 between (1) the Company and (2) Bermedi Shield Trustee Company Limited to act as in Sheet Trustee Company Limited to act as in Sheet Trustee Company and (2) Bermedi Shield Trustee Company and Casnodia Shield Trustee Casnodia Shield Trustee Company and Casnodia Shield Trustee Compa

Its accross to the management rees and expenses set out in the puragraph headed. "Management Feet and Expenses" above, the Company bears the following factor.

(I) The Agreement appointing the Custodian of the Company provides; fater sile, for the payment by the Company to the Constellan of Lifes at the rate of 0.15 per cent. per amount on, the value of the Lorentz of the Company and the secretary of the Company provides, fater sile, for the payment by the Company and a lee iii be agreed from time to time by the Company and the Secretary and to be based on the time spent by the Secretary in performing its dustey under the Agreement subject to a wincome amount for of 1852,000.

(ii) The above Agreements and the Agreements appointing the Managem, the Investment Advisors and RENC also provide, hear sile, for the reinstruments by the Company of out-of-pocket expenses and, subject to certain salegments for the Company, the results of the the results of certain commissions and benefits withing in the normal course of business and which many derive from the purchase or sale of investments by the Company. The Agreement appointing Rothechilde also provides for the retaining the provides and the retaining the the company of the Company of the Provinces and the company of the company of the Company of the Provinces and the company of the Company of the Provinces of the company of the Company of the Provinces of the company of the Company of the Company of the Provinces and the company of the

by Romentsco of extent of sections of sections and unions, support to stitute savegament.

(v) The Directors' fees totalling approximately USSA,000 per amount, plus staigmant fees.

(vi) Fees of consultants totalling approximately USSA,000 per amount, plus staigmant fees.

(vi) Poes of members of the Valuation Advisory Sourd totalling USSA,000 per amount plus attendance fees.

The Managers and the Controllin have agreed that their fees is respect of the period from 1st December, 1963 to Markey, 1984 will be divided that the fees for the plus programment of the Controllin will be calculated on the value of the net senses of the Company at 20th March, 1984 as not out in this Prospectes. The fees for the remaining period will be based on the analysed value of the net senses of the Company as at 31st May, 1984. 5 DIRECTORS

me Company or at connection with the noments of the Company. The Directors may be addition to part remonentical the present of the Company of the Company of the Company could be controlled to the following effect.

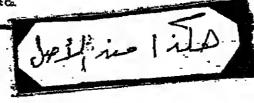
(i) (ii) A Director who is in any way, whether directly of before the following effect.

(ii) (iii) A Director who is in any way, whether directly of before the Another is a contract or arrangement for proposed confract or arrangement shall director the mature of his instruct at a meeting of the Director is which the question of executing into the contract or arrangement is first taken into consideration of the Director way, or the date of the assessing into the contract, or arrangement is first taken into connecting of the Director said after he becomes so interested, and in a case where the Director becomes interested in a contract or arrangement after it is indeed, then at the first meeting of the Director the Director becomes to interested in a contract or arrangement after it is indeed, then at the first meeting of the Director held offer he becomes to interested in a contract or arrangement after it is indeed, then at the first meeting of the Director held offer he becomes to interested in any specified company or firm, and is to be regarded in interested in any contract or before that he is a manufact of any specified company or firm, and is to be regarded in interested in any contract or interest in interiors in major of the Director of the first the first held in the same in a meeting of the Director of the first that he is a manufact of the process or depart in the first meeting of the Director of the first that internal in the same in a meeting of the processor of interest in interiors in my optimate or arrangement of the Director of the same is brought up and read at the sent meeting of the Director after it is given) be demand a sufficient declaration of interest in interiors in any optimate or arrangement or any other process or the same that the sufficient of the sufficient of the comp

counted in the quorum) at respect to his in respect of money lant or obligations incurred by non-stress requirements of the giving of any security or inclinative to his in respect of money lant or obligations incurred by non-stress requirements for substitutions.

(E) the giving of any security or inclinative to a mind purty in respect of a date or obligation of the Company or any of its exhaulter for which be indused has secured vertouslikely in whole or is part under a guarantee or indemnity or by the

cabilidaries for which be interest has managed responsibility as removed of as participant in the modern wing or first production of the control of the cont



U\$\$567,000

US\$1,217,139

US\$1,950,000

US\$500,000

US\$574,800

U5529.964.639

LISS 19,619,659 29,969,639 49,589,298

11,308,528

64,597,826

US&(J.24 (£9.21)

ted for the period ended he holding of restricted

in multiples of 10 Shares in multiples of 100 Shares in multiples of 500 Shares in multiples of 1,000 Shares in multiples of 5,000 Shares in multiples of 10,000 Shares

USE ONLY

2. Number of Shares applied for

4. Amount received

5. Amount payable on Shares allotted £

6. Amount returned

on application

3. Number of Shares allotted

1. Allotment No.

5 1%

International Plant Laboratories is the US parent company of Twyford Plant Laboratories, near Glastonbury in Somerset, a recognised leader in the tustue culture and micropropagation of a wide range of plants. Twyford, mini 1982 a subsidiary of Arthor Guitness & Soos, has been as the forefront of this technology since 1959 and now capable of reproducing over one bundred different plant species in what is the lived to be the largest independent plant tissue laboratory in the world. The company employs 80 people and revenues were USS1 1 m. in the year ended 31st May. 1983, 90 per tent, of which were derived from exports. Until now Twyford has concentrated on ornamental plants but is moving more into load crops such as tomatoes and cucumbers.

10 [Boo] of Cambridge has developed a process for improving the sensitivity of cutyme-based diagnostic tests, thereby making them much more acceptable as substitutes for tests using radionsolopes. The company was established in 1961 at the initiative of the founders of Acora Computet Group, o leading UK personal computer manufacturer, and has uself developed computer software for use in strain, types of automated diagnostic tests besides those more practice, own process.

Queue Systems of Parkersbarg, West Virginia, is a US manulacturer and distributor of laboratory equipment. The company speciations in sophisticated products for biomedical research including cryopreservation freezing systems, fermentation equipment, cell culture incubators and orbital shakers.

Repligen was founded in May. 1981 in Cambridge, Massachusetts by two Professors at the Massachusetts Institute of Technology, Alea Rich and Paul Schimmel. Its revearch activities include a noint programme with Gillette, an investor in the company, to develop personal care products which incorporate applications of biotechnology, a joint programme with FMC in develop balogical peaticides, and the development of a proprietary production process for a province with cancer therapy potential.

Vestar of Pasadena, California is a company formed in 1981 to develop commercial applications of a microencapsulation technology lovals mg lipocomes. Updatomes are microscopic spherical dropters of a water-based solution meased in a lipid coating. The lipids used are naturally-occurring latty materials so that these lipidomes are becompatible and can be used to delice drugs or radioisotopic within the body for therapeutic or diagnostic purposes. There is substantial potential for the use of uposomes, for example for the delivery of tone ami-cancer drugs and in the treatment of animal diseases.

WhAC of Bristol has developed a process for the treatment of domestic refuse and sewage sludge to produce u uniform fibrous produce which can be used in a substitute for hosticultural post or as a raw material for the manufacture of chipboard. Methane produced during the process provides all the necessary puwer and there is no perceptible effuent or odour. The system offers a number of economic and environmental advontages or or conventional methods of refuse disposal and is being marketed to municipal authorities.

Total Note: With the exception of the investment in CW Ventures, the equity interest represents the proportion of the share capital of each investment owned by the Company assuming that all conversion rights into Common or Ordinary Shares and subscription rights are

APPENDIX C

PROCEDURE FOR APPLICATION

Applications for over \$0,000 Shares

Each application must be made on the Application Form provided and be forwarded to National Weammirster Bank PLC, New Issues
Department, PO Box No. 79, 2 Prunces Street, Loudon EC2P 2BD so as to arrive not fater than 10 a.m. on 12th April, 1984
accompanied by a cheque or banker's draft.

Cheques or banker's drafts must be drawn in sterling on abranch of a bank which is either a member of the London or Scornish clearing
bourse or has arranged to prise cheques to be eleared through the facilities provided for the members of those clearing bourses, for the full
amount payable on application. Cheques must be payable to "National Westmirster Bank PLC" and crossed "Not Negotiable". A
separate cheque or draft must accompany each Application Form, Physicoepies of the Application form will not he accepted.

Acceptance of applications will be conditional on the Council of The Stock Eachange admire the Shares to be issued to the Difficial
List not later than 18th April, 1984, Moneys paid in respect of applications will be returned without interest if such admirison is nor
granted by that date and in the meantings will be retained by National Westmirster Bank PLC in a separate account.

All chemics are liable to be presented for newment on recent and the right as experted as reported account.

Note: The Net Asset Value per Share has been prepared using accounting policies consistent with those add 30th November, 1983 except that a discount of 25 per cent has been applied and only to that part of advestments as comprises restricted shares (see the note to the paragraph headed "Exating Portfolio").

Plant Genetics is a plant science and ogricultarial products company in Davis, California that is combining convention with cell and molecular budget and encapsulation delivery switchs. The company has developed proprietary re-encapsulation of seeds and for the production of "synthetic" seeds which can incorporate nurrent and agricultural Genetics is currently settling improved tomato and conton seed, potato nurrotabers and transplants.

U\$\$567,000

US\$1,241,702

US\$1,950,000

US\$23, 197,705

INTERNATIONAL PLANT LABORATORIES, INC.

IQ (BIO) LIMITED

PLANT GENETICS, INC.

487,500 Convertible Preferred Shares

40,000 Convenible Preferred Shares

REPLICEN CORPORATION

VESTAR RESEARCH, INC.

WMC (RESOURCE RECOVERY) LIMITED

sary of Net Asset Value per Share as at 20th March, 1964

Quoted, m market value Unquoted and restricted, at Directors valuation

Cash, bonds and carrificates of deposit (or i of liabilities)

Applications must be for a minimum of 50 Shares and the

Applications for our more than 100 Shares and mercaner in the Applications for not more than 100 Shares
Applications for over 100 Shares and not more than 1,000 Shares
Applications for over 1,000 Shares and not more than 5,000 Shares
Applications for over 5,000 Shares and not more than 20,000 Shares
Applications for over 5,000 Shares and not more than 50,000 Shares
Applications for over 50,000 Shares



(iv) any proposal concerning any other company in which he has interests directly or indirectly and whether as an officer or shareholder or otherwise howsover, provided that he (together with persons commenced with him which the meaning of Section 54 of the Companies Act 1900 of Great Britain) is not the holder of or beneficially interested in 1 per cent. or more of the issued shares in any classed such company for of anylything company through which his interest is derived) or of the voting rights available to members of the relevant company (any such interest being-documed to by a justified of the voting of the or more Directors to effects or employments of the Company or any company in which the Company is interested such proposals may be divided and considered in relation to each Director separately and in such rase each of the Directors coopered (of not debarred from woring under paragraph (b) (iv) above) is entitled to vote (and be counted in the quotoms) in respect of each resolution accept that concerning his own appointment.
 (d) It any question shall arise at any time as to the materiality of a Director's increase or as to the estitionent of any Director to vote and such question is not resolved by his voluntually agreeing to abstain from woring; such question is ror resolved by his voluntually agreeing to abstain from woring; such question is rortered to the chairman of the meeting and his ruling as relation to any other Director's final and conclusive extent to a case where the nature or extent of the interests of such Director has not been fairly disclosed.
 (a) The Company may by Ordinary Resolution asspend or relax the provisious of paragraphs (a) to) (d) inclusive above to any

والمحار والمصارف والأراب والمحارين والمراجع والمراجع والمعارض والأفار والمراجع والمحارب والمحار والمحارف

The regarded to the

(a) The Company may by Ordinary Resolution suspend or relax the provisions of paragraphs (a) to (d) inclusive above to any extent or ratify any transaction not duly authorised by reacon of a contravention of those paragraphs.

(f) A Director may hold any other office or place of profix under the Company (other than the office of Auditor) in conjunction or intending Director on such terms as to terms of office, and otherwise as the Directors may determine, and on Director or intending Director shall be disqualified by his office from contracting with the Company either as render, perchaser or otherwise, not shall any such contract or arrangement entered into byor on behalf of the Company of which any Directors is in the Company lot any profit realised by any such contract or contracting or degree to interest the falls or account to the Company lot any profit realised by any such contract or arrangement by reason of such Director holding that office or of the fiduciary relationship thereby established.

(g) Any Director may act by horself or through his firm as a professional expects for the Company, and be or his firm shall be conducted to remneration for professional services as it he were not a Director, provided that nothing herein contained shall be authorise a Director or his firm to act as Auditor to the Company.

Any Director may continue to be or become a director, managing director, manager or other officer or member of any company promoted by the Company or in which the Company may be interested or associated in business, and so such Director shall be accountable for any temaneration or other boundary may be interested or associated in business, and so such Director shall be member of any such other company. The Directors may marries the voiting power contented by the shares in any other company held or owned by the Company or exercised by then and directors of such other company, in such manner in all respons in they think fit (including the exercise thereof in favour of any resolution appointing themselves or may of thom, directors, managing directors, managers or other officers of such company, or voiting or providing for the payment of remmeration to the directors, managers or other officers of such company).

BORROWINGS

6 BORROWINGS

Under the Articles of Association of the Company the Directors may exercise the Company's powers or borrow and to charge its assets, but they are required to restrict the borrowing of the Company and to a crisic all woring and other rights or powers of control carrectable by the Company in relation to its subsidiary companies (if any) so in or secure law regards subsidiary companies so far in by such exercise they can secure) that the aggregate amount for the time being remaining undischarged of all moneys borrowed by the Group (which expression means and includes the Company and its subsidiaries for the time being), inclusive of any fixed or minanum psyable on final repsyment but exclusive of intra-Group borrowing, shall not, except with the meant of the Company in General Meeting, exceed an amount equal or the Share Capital and Compositional Reserves (as defined in the Articles of Association).

The expression moneys borrowed by the Group includes the principal amount of all debestures of any member of the Group which are not for the time being beneficially owned within the Group. theckin-

The Managers, a wholly owned subsidiary of Rothschilds, were incorporated under the laws of Guernsey on 18th February, 1969. The Managers have their registered office at St. Julian's Court, St. Peter Port, Guernsey, Channel Islands. Their issued and paid-up capital is £100,000. The object of the company is to provide a comprehensive management service to both corporate and individual clients.

8 THE INVESTMENT ADVISERS

The investment Advasers, a wholly owned subsidiary of Rothschilds, were incorporated in England on 19th November, 1964: The Investment Advasers have their registered office in New Court, St. Switchia's Lans, London, EC4P 4DU. The investment Advisors have their registered office in New Court, St. Switchia's Lans, London, EC4P 4DU. The investment Advisors instead and pand-up capital is a 1001,000 and the object of the company is to provide a comprehensive investment advisory and management service or both corporate and individual clients.

9 THE VENTURE CAPITAL ADVISERS

9 THE VENTURE CAPITAL ADVISERS
RINC was incorporated under its original name. New Court Securities Corporation, under the laws of the Seate of Delaware on 20th July, 1967. RINC has its registered office at 306 South State Street, Dover, Delaware, 1990., USA. The object of RINC is to provide investment bunding facilities and management advice. RINC is no associated company of Roduchids.

18. THE BANKERS AND CUSTODIAN

The Bankers and Custodian, a wholly owned subsidiary of Rothschilds, were incorporated under the laws of Guerrisey on 6th Tane, 1967. Their registered office is as 5t. Julian's Court, St. Peter Port. Guernsey, Channel Islands. Their issued and paid-up repiral is 41,000,000. The object of the Bankers and Custodian is to provide a left range of commercial banking and financial advacory services. II THE SECRETARY \*\*\*\* \* \*\*

Bermuda Strield Trustee Company Limited, the Secretary of the Company, is 40 per cent. owned by Rodnechilds and 60 per cent. by The Bank of Bermuda Limited. 12 INDEMNITIES

The Articles of Association of the Company contain provisions indemnifying and exempting the Directors. Secretary and other officers and servents of the Company from liability in curtain careamstances. They also provide that the Custodian, the Misnagers, the Investment Advisors and the Venture Capital Advisors shall be entitled or such indemnity from the Company under such terms and subject to such conditions and exceptions and with such entitlement or have recourse to the affects of the Company with a view to meeting and discharging the cost thereof as shall be provided under the Castodian Agreement, the Management Agreement, the Investment Advisory Agreement and the Venture Capital Advisory Agreement (in applicable).

13 LETIGATION

The Company is not engaged in any inigation and the Directors are not aware of any inigation or claims pensing or threatened against the Company. 14 MISCELLANEOUS

(a) Except as disclosed in section 1 aboves—

(b) no Shares beam action 1.

ept as disclosed in section 1 above:—
no Shares have been issued within the two years immediately preceding the dain of this document of are now proposed to be
asseed, fully or partly paid, either for each or for a consideration other than each; and

(ii) no commissions, discounts, brokerages or other special terms have been granted by the Company within the two years immediately precruing the date of this document in connection with the came or sale of any Shares.

immediately precruing the drive of this document in connection with the instea or sale of any Shares.

(b) No capital of the Company is under option or agreed conditionally or succonditionally to be per under option,

(c) No material asses of Shares (other than or shareholders are not to existing holdings), will be made within one year of the publication hereof without the prior approval of the Company in General Meeting, No issue will be made which would effectively after the control of the Company in the nature of as because without the prior approval of the Company in General Meeting.

(d) None of the Directors of the Company has an interest in the share capital of the Company which would be required to be shown in the register maintained under the provisions of the Company exists and the provisions of that Act. So lar as the Directors are sware on person has an interest in 5 per cent, or more of the issued share capital of the Company. (c) Except as disclosed herein, there has been no material change in the condition, financial or otherwise, of the Company since 30th Nationales, 1983.

(f) Peat, Mirchell & Co. have given and have not withdrawn their written consent to the issue of this document with their report included in the form and content in which it is included.

(e) The Company has appointed N. M. Rotherhild & Sons (C.I.) Limited as its Bunkers on the inter's normal banking serms for customers (as regards bank changes, interest and other matters). In addition, N. M. Rotherhild & Sons (C.I.) Limited or any of its associated companies may act on its normal terms in relation to the banking and foreign exchange transactions of the Company and relation any profits arising therefrom.

(h) The Company has not established a place of business in Great Britain. The Company has not established a place of business in Great Britain. (1) No change in the nature of the bosiness of the Company is to comemplation.

(1) Our of the current total Directory June of approximately USSE 200 per, minute. Lard Rothschild receives approximately USSE 200 per, minute. Lard Rothschild receives approximately USSE 200 per, minute. Lard Rothschild receives approximately USSE 200 and See Edwin Lember receives USE 200. Impres Blast, Neolas McAndrew and David Lembers receives USE 200 each, but account for such fees to RINC (in the case of James Blast) and Rothschilds (insthet excess Nicolas McAndrew and David Lembers).

The Sanges of the Company are currently listed on the Landmodding Stock Exchange and from time to thus dealings have balance place in London. The hast bargains in London, before the calculation of the Net Asset Value per 30th November; 1994, as recorded in The Stock Exchange Weekly-Official Intelligence were to 7th March, 1984 when the lowest price was 1114. The middle market price innotest on the Lanembourg Stock Exchange on 30th March, 1984 was USS1676 (21.74). Following the admission of the Shares of the Company to the Official List of The Stock Exchange, the Lanembourg Stock Exchange sating will be discretioned.

(f) The provisions of Sections 50 and 51 of the Companies Act 1948 of Great Britain (other than the penal provisions) so far as applicable (having regard or Section 419 of that Act) shall apply to the Issue of Shares in pursuance of the Offer.

James Blar Angen, Inc., Applied Biosystems, Inc., Repligen Corporation
David Leathers Celtuch Limited (attential), 1Q (Bio) Limited, International Plant Laboratories, Inc.
Apriless or benefits in respect of such directorships are accounted for to the Company and no Director has any direct or indirect interest in any portfolio company except data—

(i) David Padwa receives a salary in Chairman of Agriganetics Corporation, to which he also has a shareholding;
(a) Lames Blair is a shareholder of America, the, and Queue Systems, Suc.; and
(iii) Edward Zuff is a shareholder in Applied Biosystems, Inc.;

No amounts are required for the matters referred to in paragraph 4 of the Fourth Schedule or the Companies Act 1948 of Great

Britain.

10) None of the Directors has any direct or indirect interest in any assets which, during the two years intendiately preceding the date hereof, have been acquired or disposed of by or leased to the Company or are proposed to be acquired or disposed of by or leased to the Company.

(p) Save as disclosed in the paragraph headed "Directors" above and in Section 3 of General Information none of the Directors has any direct or indirect interest in any contract or arrangement substituted at the theoretic which is significant in relation or the business of the Company.

(q) The printing, accountancy, legal and other expusses of or incidental to the Offer inchaffing the less for obtaining a listing on The Stock Exchange and the commission and fee payable to Ronhuchilds as usenstoned in Section 3 (vii) above (but exchaffing the less for obtaining a listing on The Company.

Save as disclosed in Sections 3(vi) and (vii), no amount has been paid or benefit given (or is proposed to be paid or given) or any

(3) There is no property purchased or acquired by the Company or proposed to be purchased or acquired, which is or he paid for shally or parrly out of the proceeds of this issue or the purchase or acquisition of which has not been completed at the date of issue of this Prospectus. . . . . .

15 DOCUMENTS AVAILABLE FOR INSPECTION Copies of the following documents may be impected as the offices of Linklaters & Paines, Barrington Home, 59-67 Gresha London EC2V 71A during usual business hours on weekdays (except Saturdays and public holidays) until 21st April, 1984-

(a) the Memorandum and Articlin of Association of the Company;

(a) the contracts listed in Section 3 above;
(b) the contracts listed in Section 3 above;
(c) the report of Pear, Marwick, Muchell & Co. and their written consent;

[c] the Report and Accounts and the Interim Report and Accounts of the Company for the periods ended 31st May, 1982, 30th November, 1982, 31st May, 1983 and 30th November, 1983. APPENDIX A ents as at 20th March, 1984 Brief details of the Company's Quoted Investm

Market value of holding USS 1.254,000 Fermentation products Appropriate Co., Ipc. (lapea) 376,425 Fermentation and separation equipment Alfa-Laval AB (Sweden) 240,000 377,125 Biotechnology research and development Brotechnology General Corp. (USA) Becton, Dickerson and Co. (USA) Diagnostic proc Advanced plans breeding Cardo AB 15wedcu 1 787,750 Monoclonal antibodies for diagnostic use Centocor, Inc. (USA) 630,000 Biotechnology research and development Charon Corporation (USA) 236,375 Biomedical equipment and cell culture products Flow General Inc. 1USA1 Brosechnology research and development 1.940.625 Generatech Inc (LISA) 463,750 Browchnology research and development Genex Corporation (USA) 278,981 873.600 Gist Brocades N V. (The Netherlands Industrial enzymes Kvowa Hakko Kogyo Co., Ltd. (Japan) 887,320 Separation and purfication equipment LKB-Produkter AB (Sweden) Separation and purification emdomens .1.122,000 Millipore Corporation (USA) Monocloud Anthodes, Inc (USA) 281,250 258,750 Fermenters and fermentation control equipment New Brunswick Scientific Co., Inc. (USA) 2,971,125 4,234,350 Inculin, industrial enzymes Nevo Industri A/S (Decarark) Diagnostic kits, separation and purification equipment Pharmacia Ali (Sweden) 19,619,659

Notes: G1 The brief description of the activities of the portfolio companies listed above relates to the areas of primary interest to the Company and does not necessarily represent the principal business of these companies. (ii) The Company's interest in the issued there capital of any of the portfolio compa

APPENDIX B tests of at 20th March. 1964 Brief details of the Company's Unquoted and Restricted Jan Cost Valuation as as 20th March, 1984 Holding ADVANCED MINERAL TECHNOLOGIES, INC. US\$250,000 US\$30,000 USSSO,000 Demand Note

AMT was formed in 1967 in Societo, New Mexico to benefit from the expertise of Dr. Corale Brierley, who is a leading the application of biorechnological processes to the mining and potherion control industries. The Company provided in USSSO, 000 for the preparation of a detasled biomasses plan. The initial product target has been selected at a water pint which will absorb heavy metals onto micro-organisms and at is planned thet the system should be available for test metals of the selection of the development of microbial processes for the recovery occasions metals from overs we 1995. A secondary target is the development of microbial processes for the recovery occasions metals from overs we grade or difficult to leach. The Company has recently agreed or meet an additional USSSO,000 in AMT.

124.627 Sheres of Common Stock.

Agrigenesies, of which David Pades a, a Director of the Company, is Chairman, is a plant science company based in Boulder, Colorado that is engaged in 165 Carachinho, and in the development, production and marketing of, generically improved seeds and nitrogen faung that is engaged in 165 Carachinho, and in the development, production and marketing of, generically improved seeds and nitrogen faung that is engaged in 165 Carachinho, and in the development, production within the US seed indigurs. It is now score in more than 160 engaged in full-time than 50 crop species, is well established in many geographical regions in the USA and has a staff of more than 160 engaged in full-time than 50 crop species, is well established in many geographical regions in the USA and has a staff of more than 160 engaged in full-time than 50 crop species in the USA and has a staff of more than 160 engaged in full-time than 50 crop species in the USA and has a staff of more than 160 engaged in full-time than 50 crop species and society production in the USA and has a staff of more than 160 engaged in full-time than 50 crop species and society and has the seed of more than 160 engaged in full-time than 50 crop species and society and has species as the seed of the USA and has a staff of more than 160 engaged in full-time. The seed of the seed of the USA and has a staff of more than 160 engaged in full-time. The seed of the seed of the seed of the USA and has a staff of more than 160 engaged in full-time. The seed of the seed of the seed of the USA and has a staff of more than 160 engaged in full-time.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

1.26.

APPENDIX B continued

AMCEN, INC. Angent based near Los Angelts. Is notive in feur main research structs: human therapeuture (principally alpha and gamma interferous); around health care (precipally alpha and gamma interferous); around health care (precipally alpha and gamma interferous); around health care (precipally chemicals) (particularly) shore involving microbial condition of hydrocurbons); and diagnostics. In the latter area Angen has a five year (recearch contract dated May, 1983 with Abbott Laboratories, the world's leading diagnostics company, under which Angent of interior approximately USIPS or over such period in eachings for enthistive world marketing rights. Angent's first commercial products will entire from the Abbott Canglostic programme. Therapeutic products choses to commercialisation are thicken growth hormone and a synthetic analogue of micricron which incorporates the main molecular funtures of the various sub-proper of sutured alpha microston. This is claimed to show greater antivited efficacy than any known natural alpha interferon. The company's shares are traded in the US over-the-counter market.

In the year ended 31st March. (983). Amgen reported revenues of US\$1.50 (1992; US\$1.70 in), inclosing act interest decorie of US\$1.60 (1982; US\$2.70 in), and a next loss before tax of US\$7.10 (1982; US\$1.70 in). The company recently reported meaduled reseller for the main month period ended 31st Determber, 1963 showing revenues of US\$4.30 incloding next interest recome of US\$1.30 and a next loss before tax of US\$3.40.

APPLIED BROWSTEASE THE 128,750 Shares of Common Super 1.1% US\$515.001 US\$ 65,984

APPLIED BIOSYSTEMS, INC.

295,000 Shares of Common Stock 5.6% 2155700.615 285,000 Shares of Common Stock

Applied Biosystems is an instrumentation and fine chemical company located near San Francasco which began operators in 1961 initially in manufacture and stanker an automator protein sequencer and an automated DNA synthesises, together with associated chemical reagents. A large number of laboratories involved to recombinant DNA synthesises, together with associated chemical reagents. A large number of laboratories involved to recombinant DNA synthesises, together with associated chemical reagents is they permit the determination of the sequence of amino acids in a protein land to the possible DNA sequences coding for that protein) much more rapidly than was previously possible and the synthesis, quietly and reliably, of large numbers of DNA fragments. Applied Biosystems also provides a service mile custom synthesis of DNA fragments and of developing instruments for the synthesis of protein I represent agreement and of protein I represent section of protein I represent section of protein I represent section from Standard University I which can be used in immunouslay labels. The company asserts are traded in the US over-the-counter market.

For the year ended its July, 1963, Apphed Biosystems reported asked of USSS 5m. (1982; USSO 4m.) and not income before (as of USSO 2m. (1982; USSO 2m.) and not income before tax of USSO 2m. (1982; USSO 3m.) and not income before tax of USSO 2m.

CATALYTICA ASSOCIATES, INC.

571. 230 Convertible Preferred Shares US\$1,030,002 L'S\$1,000,002 571,300 Convertible Preferred States

Catalytics was founded in 1974 and is involved in the field of catalytic, providing contract research and multiclient studies and massaging joint venture projects with leading international decruical and petrochemical companies. Catalytics, which is based in Motintain View; Cantornia, has established a multi-disciplinary feature of some 50 scientiss, exposers and support staff, as well as highly sophisticized laboratory facilities. The main in-boost reason project sums to incorparate some of the molecular features of exceptions into organo-metallic catalysis for use in a number of commercially important chemical processes.

17.00,000 Ordinary Shares

17.00 Ordinary Shares

18.00 Ordinary Sh CW VENTURES

Limited Partnership Interest.

CW Ventures is a US venture capital fund formed in July, 1962 by Channing, Whithers & Company, Inc., a leading US farm of health care consultants. The fund raised USSD2.5m [one third of which has so far been drawn down) for an extract in health care companies prostatily at an early stage of development. By 31st December, 1963 CW Ventures, had reviewed 35 investment proposals and had made investments to an analysis of development. By 31st December, 1963 CW Ventures, had reviewed 35 investment proposals and had made investments to an analysis of which USSD33,333 is due for payment on 13th April, 1964.

DNA PLANT TECHNOLOGY CORPORATION JNNA FLANT I ELEMOTROFY CERTONALIZATION 12015

2.9'S USS999.CS USS1,065,624

DNAP, whose main facilities are in Communision, New Jersey, is an agracultural Neucehnology company, Dr. Sharp and Dr. Evans, the chief scientists, were former employees of Campbell Soap and have particular expertise in plant issue culture and protoplast fusion. The company is andertaking research in a variety of a reast/towarders, terpical plants, carrots, em.) for many large multinational companies such in Campbell Soap, Centeral Foods, BAT Industries and Hersbey. The company is engaged in the development and marketing of plant-related consumer and industrial products. A joint venture with Koppers was recently amounced for the development and commercialisation of diagnostic kits for plant disease. The company's shares are traded in the US over-the-course market.

In the year ended Hist December, 1982 DNAP reported references of US\$1.2m. (1981; NO), including net interest income of US\$1 Dm. (1981; NI) and a net loss before tex of US\$0.4m. (1981: US\$0.1m.). The company recently reported mandated results for the year ended Hist December, 1983 showing revenues of US\$1.5m., including net unterest means of US\$0.9m., and a net loss before tax of US\$1.1m.

GENETIC SYSTEMS CORPORATION 1355900,000

Genetic Systems of Seattle is an important company in the application of monoclonal antibodies to the diagnosis and treatment of lumino diseases. One of the company's major areas of product development is the diagnosis of infections diseases unduling better simpler, population of product development is the diagnosis of infections diseases unduling better simpler, population and syphilis. The first three tests the relating to a test increase of infections are underlying the test (for relating the antibodies) and treatment of underticant enumed by authorities resulted to better a measure of research by the company include; (f) the diagnosis and treatment of underticant enumed by authorities resulted to patients suffering from burns; (a) those and blood syping for transplants and transfusions; and (ii) the diagnosis and occupient of clutter. The last area of research is the subject of a partnership with Syntax called Oncogén. The company's there are traded in the US over-the-counter market. In the year ended 31st December, 1982 Genetic Systems reported revenues of USS2.2m (1981; USS0.3m.) and a not loss before tax of USS1.0m. (1981; USS0.4m. loss). The company is seemly reported unaudated results for the year ended 31st December, 1983 showing revenues of USS3.9m. and a not loss before tax of USS1.3m.

GENZYME CORPORATION Georgeme is based in Boston, but has its principal activities in the UK following the acquaition of two UK companies. Whatman Biochemicats, a producer of industrial and degrossic enzymes, and Koch-Light Laboratories, a manufacturer of fine chemicals for bhornitory use. Georgeme intends to use these two acquaismons as a base for developing its mercents in bounchoology in collaboration with a multi-discrptinary group of professors at Harvard University and the Manaschuserts Institute of Technology.

5.0% IMMUNEX CORPORATION 300.120 Shares of Common Stock 200,220 Shares of Common Stock: USS1.220. USS1

INTEGRATED GENETICS, INC.

New Court,

Please pin --

cheque here

N. M. Rotherhild & Sons Limited, urt. 3 York Street,

300,000 Shapes of Common Stock

3.6%

USS1,000,000

USS1,105,247

Integrated Genetics was founded near Boaton in February, 1981 and is involved in the spakination of recombinant DNA technology to the reported and diagnostic products. The inter all involve DNA by bridisation probes, an emerging diagnostic technique which utilises labelled tragments of synthetic DNA to detect or identify specific gene sequences. Integrated Genetics has developed prototype tens for samponellal for use in the food spreasuring industry), extrust general longuistic parties working on a generic streening tool for eyatic fluridist. The saltionicila tools in both being evaluated by several major US food complained. The repende products include lent-this hormoses and tissue plasminogen activator, an enzyme which dissolves blood clots. The company's shaces, are graded in the US over-the-counter market.

For the pear-ender(3) ist December; 1982 integrated Genezies reported revenees of US\$1.2m. (1981; US\$9.1m.), including not interest income of US\$9.5m. (1981; US\$9.05m.), The company recemby reported transaction results for the year coded 31st December; 1983 showing revenues of US\$3.5m. including not interest income of US\$1.2m., and a not loss before tax of US\$2.2m.

Birmingham B3 3NS.

List pot later than 18th April, 1994. Money's paid to respect of applications will be returned without profession is nor granted by hair date and pril, 1994. Money's paid to respect of applications will be returned without professions and in the meantime will be retained by National Westmenster Bank PLC in a separate account.

All cheques are liable to be presented for payment on receipt and the right is received to retain Lenters of Alfolment and any surplus application moneys pending relearance of application; resonanced on first presentation; attention is drawn to the declaration in the Application Form to that effect. The right is terer ed to reject any application attention is drawn to the declaration in the Application Form to that effect. The right is terer ed to reject any application in part only and in particular to reject multiple or suspected multiple applications. The right is also received to near as valid any application which do not fally comply with the conditions set out in the Application Form. If any applications is not accepted, the amount paid on application will be returned without interest in each case by cheque through the post at the applicant's risk.

Preferential consideration will be given to applications from shareholders of the Company on the Register at close of business in Outcrosey on 28th March. 1894 for ap to a total of 440,000 Shares, terpresenting 20 per cent of the Shares being officied for subscriptional, of made on the special pink Preferential Applications. Forms made available to them, Such applications must be lor a minimum of 20 Shares or a multiple of 1118 hares and, for applications in over 1100 Shares, in multiples as set out above 11 applications must be lor a minimum of 20 Shares or a multiple of 1118 hares and, for applications.

Folly paid renounceable Letters of Alfolment in respect of Shares afforted will be sent by post to successful applications of Rothschilds, will be aggregated with other applications.

Folly paid renounceable Letters of Alfolment in res A commission of the per cent, of the amounts accepted on successful applications will be paid to stockhokers, banks and other intermediaties in respect of Application Forms bearing their stamp. AVAILABILITY OF COPIES

Copies of this document with Application Forms attached may be obtained from: Casenove & Co., 12 Tokenhouse Yan

Bank PLC. 80 George Street, Edinburgh, New Issues Dept., PO Box No. 79, Hirmingham City Office, PO Box No. 87, EH2 3DZ. 2 Princes Street. London EC2P 2BD. Colmore Centre, 103 Colmore Row,

Bristof City Office, PO Box No. 238, 32 Corn Street

14 Blythswood Square,

Leeds City Office, PO Box No. 154, 8 Park Row, Glasgow, G2 4AQ.

N. M. Rothschild & Sons (C.I.) Limited,

PO Box 58.

St. Julian's Court, St. Peter Port, Guernsey, Channel Islands.

This form when completed should be forwarded to National Westminster Bank PLC, New Issues Dept., PO Box No. 79, 2 Princes Street, London EC2P 2BD, to arrive not later than 10 a.m. on 12th April, 1984 together with a cheque or draft, drawn in sterling on a branch of a bank which is either a member of the London or Scottish elearing houses or has arranged for its cheques to be cleared through the facilities provided for the wembers of those clearing houses, for the full amount payable on application. Cheques must be made navable to National Westminster Bank PLC, New Issues Dept., PO Box No. 79, 2 Princes Street, London EC2P 2BD, to arrive not later than 10 a.m. on 12th April, 1984 together with a cheque or draft, drawn in sterling on a branch of a bank which is either a member of the London or Scottish elearing houses or has arranged for its cheques to be cleared through the facilities provided for the wembers of those clearing houses, for the full amount payable on application. Cheques must be made navable to National Westminster and the payable of the pay SUBSCRIPTION LISTS WILL OPEN AT 10 a.m. ON 12th APRIL, 1984 AND MAY BE CLOSED AT ANY TIME THEREAFTER.

lities provided for the wembers of those clearing houses, for the full amount payable on application. Cheques must be made payable to National Westminstrand crossed "Not negotiable". A separate cheque or draft wast accompany each application.	
Biotechnology Investments Limited	
Offer for Subscription	FOR OFFICE

Number of Shares applied for	Amount due on Application
	£

of 2,000,000 Ordinary Shares of 2 cents. each ("Shares") at £9.15 per Share payable in full on application.

Analization Forms

To: Biotechnology Investments Limited (the "Company") and N. M. Rothschild & Sons Limited Having paid the above mentioned sum, being the full amount payable on application for the above-stated number of Shares, I/we offer to subscribe for that number of Shares of the Company and I/we agree to accept the same or any smaller number of Shares in respect of which this application may be accepted upon the terms of the Prospectus dated 7th April, 1984 and subject to the Memorandum and Articles of Association of the Company. I/We agree that this application and any acceptance will be governed by and construed in accordance with English law.

I/We authorise you to send a renounceable letter of allotment in respect of such Shares or such lesser number as may be allotted and/or a cheque representing the volume of any application moneys due to metus by post at my/our risk to the (first) address written below and I we hereby authorise you to place my/our name(s) on the Register of Members of the Company as the holder(s) of such of the Shares as are not effectively renounced. Signature (1)\_

Joint Applicants must sign below.

-- 7-5 ... ... .

I/We represent and warrant that due completion of this Application Form accompanied by a chequi constitutes a representation and warranty by me us that such cheque will be paid on first presentation and (/we acknowledge that any allotment to me/us is strictly on this understand

In consideration of your agreeing to accept this application upon the terms and subject to the conditions of the said Prospectus I/we agree that this application shall be irrevocable until 19th April, 1984 and that this paragraph shall constitute a collateral contract between me'us and yourselves, which shall become binding upon despatch by post or defivery of the Form of Application to National Westmiuster Bank PLC, New Issues Department. I/We agree that, in respect of those Shares for which my/our application is not rejected in accordance with the terms of the said Prospectus, notification to The Stork Exchange of the basis of allocation shall constitute acceptance of my/our application on such basis.

I/We warrant and represent that I/we have observed and complied with all requirements and obtained all consents required for this application to be made by any jurisdicting to which I/we may be subject and I/we hereby declare that the Shares are not being acquired directly or indirectly by a United States person (as that term is used to the said Prospectus).

Surname and Designation (Mr., Mrs., Miss or Title
 Forename(s) in full.
 Address in full. (A corporation should complete this Form under the hand of a duly authorised official who should state his capacity.)

(2) Signature		7. Cheque No.
Surname and Designation (Mr., Mrs., Missor Title)		
Address (in full)		<del></del>
(3) Signature		
Surname and Designation (Mr., Mrs., Miss or Title)	Forename(s) in full	
Address (in full)		
(4) Signature		L
Surname and Designation (Mr., Mrs., Miss or Trile)	Forepame(s) in full	<del></del>
Address (in full)		
YOU'ARE ADVISED TO ALLOW TWO DAYS FOR DELIVERY THR CLASS MAIL. THE COMPANY RESERVES THE RIGHT TO PRESEN RECEIPT AND TO WITHHOLD ALLOTMENT LETTERS AND EXCE CLEARANCE OF APPLICANTS' CHEQUES.	NT ALL CHEQUES FOR PAYMENT ON 1 2000-00-00-00-00-00-00-00-00-00-00-00-00	

No receipt will be issued for the amount paid on application but an acknowledgement will be forwarded in due course by renounceable letter of allotment in respect of all or some of the Shares applied for and/or return by chaque through the post of the application money or any surplus thereof.

EQUITIES

# **UK COMPANY NEWS**

**NatWest** 

assets

# Fleming forms Japanese fund and raising £42m

Robert Fleming, the merchant bank, bas formed the Fledgeling yen (£150m) in annual sales.

Japan Investment Company, a Bermuda based investment trust, and is offering 12m units of five appreciation, in companies with a part of the process of the issue are James Capel. and one warrant to raise

Jardine Fleming will manage the fund which will be invested in Japan's small companies sec-tor. It expects to take advantage the recent relaxation of regulations by Japan's stock ex-changes allowing greater invest-ment in the second tiar market of nearly 450 small to medium-

of nearly 450 small to mediumsized compenies.
Major changes in the regulation of Japan's over-the-counter
market are expected to result in
a larger and a more active market. Japan's venture capital
industry is also developing and
providing a growing number of
opportunities to invest in unquoted companies.
Robert Fleming says that all
these developments should contribute to a more diversified and
active small company sector for

active small company sector for investors in Japan. It intends to share may be exercised from largest up to 20 per cent of the funds in unquoted companies. A small company is defined gener-

TAXABLE PROFITS of Exeter

After net interest paid of £200,000 (£80,000 received) and tax, net profits were down from £861,000 to £570,000. The final dividend is maintaided at 4.5p net for a same-again total of

7p per 50p share, which absorbs £213,000 (£210,000). A one-for-

four scrip usue is also proposed. Shareholders' funds increased

from \$4.04m to £4.51m

NEW ISSUE

Exeter

**Building** 

downturn

Fieming's strategy will be to invest for long term capital appreciation, in companies with high technology profile including communications equipment, computer systems. specialist elec-tronic components and precision engineering. Other sectors con-sidared to have potential include the leisure lodustry and specia-

lised distribution services.

The company will take a maximum stake of 20 per cent in any one company and will not invest more than 10 per cent in any one investment.

Robert Fleming has placed three quarters of the offer. The remaining 15m shares and 3m warrants are offered in units of 5 shares and one warrant at U.S.S.5 (£3.50) payable as to 40 per cent on application, with 30 per cent due by October 5, 1984 and the balence of 30 per cent by April 5, 1985.

The warrants equivalent to one

increase to £60bn TOTAL ASSETS of National Westminster Bank increased from £54.49bn to £60.02bn at the end of 1983. Advances rose by £3.7bn to £45.17bn, while deposits reached £55.25bn, against

€50.2bn.

Jardine Fleming has established a solid reputation for fund management in the Far East including Japan. Given the competition to this investment area, it tion to this investment area. It has been quick to respond to recent changes which should encourage Japan's small companies sector and market a new fund, Fledgeling Japan Investment, focused on this area. Mr John Drysdale at Robert Fleming says there is no shortage of investment opportunities and Flemings expects to invest the funds without undue delay. The immediate outlook is according to Flemings "unambiguously good" for the Japanese economy and the corporate sector. It has sweetened the offer with a warrant which virtually wipes out the expected discount to net worth at which the shares will probably open against an aver-

prohably open against an average discount for the sector of around 3 per cent.

comment

Meeting, 15 Bishopsgate, EC, on May 1 at noon. COMPANY NEWS IN BRIEF . See Lex

## FT Share Information

Finance)

The following securities have been added to the FT Share Information Service: Brist Investments (Section Trusts Finance Land) Dewey Warren (Insurance) Morcean Hidgs (Chemicals) Rand London Corp (Mines-

Pauls & Whites Panis & Whites, maltsters end animal food manufacturer, has called an extraordinary meeting for April 26 to consider changing the company name to Pauls.

ALTHOUGH LAST year was somewhat dominated by Bath and Portland Group's withdrawal from civil engineering. TAXABLE PROFITS of Exeter Building & Construction Group declined from £983,000 to £659,000 m 1983, following the half-time reduction to £327,000, against £391,000. Turnover for the year of this USM company rose by £1.07m to £34.97m.

After net interest paid of any following the prosperity will now be founded. Mr David Macdonald, the chairman, told members at the AGM.

Thurgar Bardex, plastic products manufacturer, incurred a higher pre-tax loss for 1983 of £25,000 against £4,000, despite a £38,000 profit to the second haif. £38,000 profit io the second haif. recommended. Earnings per Profit before interest of share are shown as 6.57p, £205,000 (£204,000) was down at against a 2.22p loss.

£180,000 (£200,000). There was As last year, there is no divi-dend. Losses per sbare are abown rising to 0.19p from 0.03p.

Summer Products made a f172,000 pre-tax profit in 1983, against a loss of £29,000.

Garden furniture and metal smallware maker, Summer, a subsidiary of Hartons Group since 1981 when Francis Summer Holdings. ings' non-textile side was demerged, had turnover of £3.23m (£3.1m1. Tax took £54,000 (£2,000).

A dividend of 0.63p has been

## **APRIL 1984**

U.S. \$100,000,000

These Notes having been sold, this announcement appears as a matter of record only.

The Long-Term Credit Bank of Japan Finance N.V.



1134 Guaranteed Notes Due 1989

Unconditionally guaranteed (as to payment of principal and interest) by

## The Long-Term Credit Bank of Japan, Limited (Katratiki Katshu Nippon Choki Shinye Gorko) (A Japanese Carporation)

LTCB International Limited Credit Suisse First Boston Limited Salomon Brothers International Limited Morgan Guaranty Ltd **Bankers Trust International Limited** Banque Bruxelles Lambert S.A. Banque Indosuez Banque Nationale de Paris Chase Manhattan Capital Markets Group Commerzbank Aktiengesellschaft Crédit Lyonnais Daiwa Europe Limited Deutsche Bank Aktiengesellschaft First Chicago Limited Girozentrale und Bank der österreichischen Sparkassen Kredietbank International Group Lehman Brothers Kuhn Loeb Lloyds Bank International Limited Manufacturers Hanover Limited Merrill Lynch Capital Markets Morgan Stanley International Nomura International Limited Orion Royal Bank Limited Swiss Bank Corporation International Limited Union Bank of Switzerland (Securities) Limited S. G. Warburg & Co. Ltd.

Algemene Bank Nederland N.V.	Julius Boer Internations	Ranca Consumercial	e Izaliana Banca del	Gottardo Benes di Roses
Bank of America International	Bank für Gemeinwirtschaft Aktingswistelst	hank Gutzwiller, Kurz, Bengenes (	Overseas) Bank of Helshaki	Ltd. Bank Les International Ltd.
Bank Leuwi le Israel Group	Beak J. Ventobel & Co. AG Be	nk Mees & Hope NV Banga	e Européenne de Tokyo Bag	que Française du Commerce Extériou
Banque Internationale à Luxemb	oorg S.A. Banque de Neufil	zv, Schlumberger, Mallet	Bunque Parthes Bane	per Populaire Seisse S.A. Lazzonbourg
Barckyn Bank Group	Baring Brothers & Co.,	Bayesische Hypotheken-	and Wechsel-Bank	Bear, Steams International Limited
Bunkhous Gebrüder Betlomann	Blyth Eastman Paine Webber	Caissa des Dipôts et Consign		Chemical Bank International Group
CTBC Limited Con	pagnie de Bauque et d'Investinsements	CBI Continentsi BB	zek Capital Murkets Group	Copenhages Handelsbark A/S
Crédit de Nord Creditos	tajt-Bankverein Daj-Ichi Euroj United	e Den Dannke Bank al 1871 Abrentiket Sugapon Strack	Deutsche Girozentrale -Deutsche Kommunifienk-	Dillon, Read Overseas Corporation
Dominion Securities Ames	Dresdoer Bank Drezel Burz	ham Lambert Inc. Enskile	a Securities . Euromobiliar	e European Sanking Company
Genosucuschaftliche Zentrajbank	AG Guldman Sachs Internation	J Corp. Hambros Bank Line	ited Handelsbank N W (Ove	rsess) Ltd. Hessische Lundesbank
Hill Samuel & Co. E F Ha	tton & Company (London) Lui.	Eidder, Penhody International		Arts Ltd. LTCB (Schweiz) AG
McLeod Young Weir Internation	pal B. Metzler seel. Sohn & Co.	Semeel Montage & Co.	Morgan Greatell & Co. To	e Niko Securities Co., (Europe) Ltd.
Nippon European Bank S.A.	Nippon Kangro Kakamaru (Europe	) Norddeutsche Landechauf	Sel. Oppenheirs jr. 2 Cle.	Ocakaya International (Europe)
Österreichische Linderbank	Pictet International Ltd	Plerson, Heidring & Pierson P	LY. PK Christiania Ben	k (UE) Ltd. Printbules A/S
Pradoutial-Bache Securities	Rabobank Nederland	N. M. Rothschild & Sees	Sanyo International	J. Henry Schreder Wagg & Co.
Smith Burney, Harris Upham &	Co. Société Générale Société Gé	nérale de Banque S.A. Svenska	Handelsbankes Group Ueber	see Limited Yereins and Westback
Westdeutsche Lundesbunk	Desa Witter Royacids Or	erres Ltd. W	ood Gundy Limited	Yanaichi International (Europe)

	FINANCIAL TIMES STOCK INDICES									
	Apr.	Apr.	Apr.	Apr.	Apr.	Mar.	1983 High	184 Low	Since Go High	mpilatn Low
Government Secs.	82,79	82,81	82,60	B2,66	83,02	83,12	83.77	77,00	187.4	49.18
Fixed Interest	86,58	36.62	86,52	85,55	86,73	86,75	87,48	72,05	150,4	50,53
Industrial Ord	865,4	867.0	857.8	852,2	870.6	877.0	901,4	598.4	901.4	49,4
Gold Mines	856,6	655.4	645,9	639.7	661.3	666.8	784.7	444,6	784.7	43.5
FT-Act. All-Share	616.21	519,08	515.20	517.06	522,95	524.20	581,00	383,22	531,00	51,92
FT-SE 100	1096,5	1103.2	1095.5	1095,4	1106,1	1112.5	1180.7	997,5	1150.7	997,5

FULCRUM INVESTMENT TRUST P.L.C. Net asset value (unaudited) as at 30th March 1984

Income Shares: 41.82p

Capital Shares: 6.24p

# Biotechnology London listing

be unique in backing only bintechnology ventures, is seeking a Loodon listing for its shares and raising a further £18.3m through an offer for subscription of 2m shares at £9.15 a share.

The trust was set op io £981 by N. M. Rothschild and has Lord Rothschild as chairman. It is seeking the listing to widen the market for its share presently shares now being offered for traded on the Luxembourg Stock Exchange and with some limited matched bargains in London. The additional funds will be used for new investments and to augment at the stating oces.

That trust has received a steady

foo 2bn.

Mr Philip Wilkinson, the group chief executive, writes in the annual report that the main thrust of the group's operations during 1983 was to extend significantly the scope and depth of services provided to personal and business customers.

Despite difficult trading conditions, excellent progress has been achieved, be states. NatWest has entered new markats, devaloped new products, introduced new technology and opened for business in new territories. "From this platform we are well placed for further development in the coming year." Mr Wilkinson comments.

As reported March 7, the group relief of party profits in The additional funds will be used for new investments and to augment existing oces.

Tha trust has received a steady stream of applications from companies seeking investors which are carefully screened by its investment advisers, N. M. Rothschild Asset Management, and a team of eminent scientists who act as consultants.

comments.

As reported March 7, the group raised pre-tax profits in 1983 by 15 per cent from £439m to £503m, in spite of difficult external factors. Provisions for had and doubtful debts were also un 15 per cent at £284m, against £229m.

Meeting 15 Bishonsgate EC

Blotechnology Investments the which just under half is in 19 mnquoted or restricted investments and 32.2 per cent is in technology ventures, is seeking a Loodon listing for its shares and raising a further £18.3m through an offer for subscription of 2m shares at £9.15 a share.

The trust was set op in 1981 provisions for the payment of an ly N. M. Rothschild and has Lord interim dividend of 10 cents per Rothschild as chairman. It is share preference will be given market for its share presently shares now being offered for

• comment

Tha trust has received a steady stream of applications from companies seeking investors which are carefully screened by lts investment advisers, N. M. Rothschild Asset Management, and a team of eminent scientists who act as consultants.

The majority of its existing 37 quoted and unquoted investments have been in the U.S. because of the higher level and quality of applications. UK investments in small unquoted companies bringing the proportion of the total portfolio in the UK to just under 16 per cent.

The two recent stakes are 1850,000 in IQ (Bio) which is linvestigating a new method of diagnosing diseases from its Cambridge base; and \$400,000 in the tissue culture.

Net assets of Blotechnology Investments in the chance to participate in a trust which has some of Britain's top scientists advising it and is beaded by Lord Rothschild, Cambridge biologist turned banker. The trust has established strict criteria including looking only at ventures with high calibre scientists and first rate businessmen. The result has been a 50 and early increase in net assets. Only founded in 1981, the frust includes investments with 50 and early increase in net assets. Only founded in 1981, the frust includes investments with 50 and early increase in net assets. Only founded in 1981, the frust includes investments with 50 and early increase in net assets. Only founded in 1981, the frust includes investments with 50 and and 1981, the frust includes investments with 50 and and 1981, the frust includes investments with 50 and 6 and

# Stalemate at Broken Hill

BY KENNETH MARSTON, MINING EDITOR

STALEMATE cootinues in the. wage dispute which has resulted place at the moment between in the closure of the three major the companies, notably Broken mines at Broken Hill in New Hill South and CRA, and the south Wales which produce unions although it is hoped that nearly half Australia's lead and they will resume this week.

a mass meeting of miners had rejected a union call to return to work while the dispute goes to the state Industrial Com-

over 40 per cent of its zinc.

Mr Justic O'Connell, manager of the Broken Hill Mining ment, a A\$50 (£32,50) wage rise and shorter working hours while and shorter working hours while the companies have countered with proposals to change work practices in order to improve productivity.

## SHARE STAKES

ordinary.

Superdrag—President R. Goldstein has disposed of 20,000 ordinary to six members of his immediate family by way of gift.

Johnson and Firth Brown—

BRP Securities, subsidiary of Bajau, has purchased 280,000 11.05 cumulative convertible

Crosby Woodfield—Baynard Securities has purchased 500,000 ordinary (6.94 per cent).

Keep Trust—Director G. P. C. Hpward has exercised an option to acquire 2m shares and now holds 3.15m.

DPCE—Thompson Crive and Partners has reduced its holding by 100,000 sheres to 150,000.

Gold and Base Metal Missa— Matherwood has increased its stake to 1,162,495 shares (13.87 per cent).

London Investment Trust— in Industry has reduced its stake in Industry has reduced its stake in Industry has reduced its stake.

London Investment Trust— in Industry has reduced its staks
Chairman Mr J. S. Arthur has to 5.755,000 ordinary (12.98 per acquired 100,000 prdinary which together with his f amily's Phoenix Properties and inherents makes a dust holding

interests, makes a total holding of 4.890,926 shares (5.5 per cent).

Blue Bird Confectionary—E. Nassar has purchased 60,00 ordinary.

Superdrag—President R. Goldstein has disposed of 20,000 ordinary to six members of his immediate family by way of gift.

Johnson and Firth Brown—Corten Beach (Holdings)—Mr. Alex Birchall has acquired, for Alex Birchall has acquired, for an undisclosed sum, 200,000 shares (8 per cent).

## BIDS AND DEALS IN BRIEF

Slough Estates has received Slough Estates has received 99.28 per cent acceptances in respect of its hid for Allmatt Loudon, including the shares owned hy Slough subsidiary Allmatt Loudon Properties. The offers have heen declared unconditional as to acceptance and will remain open until further notice.

Hamilton Oil Corporation announces that at close of business on Monday it had received acceptances of its offer for Hamilton Oil Great Britain in

## BOARD MEETINGS

The following compenies have notified dates of Board mastings to the Stock Exchangs. Such meetings are assetly held for the purpose of considering dividends. Official indications are not available as to whether his dividends are interims or finels and the subdivisions shown below are based mainly on last year's timetable.

TODAY
Interims:—Giaxo, Jamas Helstead, Highland Giabilianes, Inter-City Investment.

Woodside Park.

\*
Arbuthnet Produce, 8 subsidiary of Dow Scandia Holdings, has sold its interest in Marcuse Dorme and Co. to Arthur Barfield Group. Mr Marcuse was a founder member of Marcuse Jorme and Co., but left the company to join Landauer when Arbuthnot Produce decided to sell its interest in Marcuse Dorme.

The new division of Landauer. ment.
Finals:—Cardinal Invastment Trust,
Cantaply, Edinburgh Securides, Gameral
Invastors and Trustees, Hunting Petrolaum Services, William Jacks, Janks
and Cattell, Jaraey Electricity, Rugby
Pordand Coment.

FUTURE DATES lambro Life Assurance .......

THE MORTGAGE BANK AND FINANCIAL ADMINISTRATION AGENCY KINGDOM OF DENMARK 250,000,000 GUARANTEED FLOATING RATE NOTES DUE 1994, SERIES 91 UNCONDITIONALLY GUARANTEED BY THE KINGDOM OF DENMARK

The new division of Landauer will trade as Marcuse Gines &

ROTHSCHILD ASSET MANAGEMENT (CI) St Jolian's Court, St Peter Port, Guernsey . 0481:26741 O.C. INTERNATIONAL RESERVES LIMITED Australian Dollars 15.019

+ .003 6.63 + .028 6.73 + .015 5.74 Danish Kroner Hong Kong Dollars -100,085-Dally Dealings

# F.P. 27,4 182 166 F.P. - 206 156 **FIXED INTEREST STOCKS**

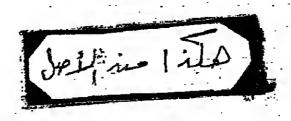
"R	IGH	ITS"	OFF	ERS				
Issue price	mount and up	Lainst Renunc.		5/84	ľ	Stock.		rios
	-	200	High					gr.
400 F1,23	F.P.	17/5	125pm £534	F2211	AKZO HIV	Ft. 20		P274
215 A\$7.5	NI	10/5	266pm	216pm	Bowater - Broken Hi	Prop.AS	3.,,	268pm
ir. 620	F.P.	5/4	285	138	Cast Dago	a Optione		290
460	NII.	15/5	15pm 35pm	12pm	Evered.			25pm
130	F.P.	9/4	150 150	140m	Grosvenor			16pm
80 . 40	F.P.	5/4	. B7	80	Hawley G	own 121zr	Line	2pm
16	F.P.	21/3	314pm	27ou	Sheafbani	Proderty	.10n	31pm
25	MIL	11/5	Sepon Sepon	112pm	Subolitis &	peakman		27pm 12pm

## PENDING DIVIDENDS

Dates when some of the more important company dividend statements may be expected in the next few weeks are given in the following table. The dates shown are those of last year's amouncements except where the forthcoming board meetings (indicated thus?) have been officially notified. Dividends to be declared will not necessarily be at the amounts in the column headed "Announcement last year."

-	to 5 755 AM andiants: (19 DQ: note	Printouncement 200	. year.		
*	to 5.755,000 ordinary (12.98 per	47. 7. 7. 6.	Announces		Апоочлее-
0,	cent).	Dete	mont doet	Deta	ment dest
5	Phoenix Properties and		Appt		year
g	Finance—J. R. Sail has disposed	"Advenue"Apr 17	Interim 2.1	House of	
١.	of 424,000 ordinary and now	Akroyd &		Fraser, Apr 28	Final 5.5
	holds 700,892 (9.1 per cent).	. SmithersMay 9	Interim 4.P	*Kwik SaveApr 13	Inverim 2.3
-	Wiggins Group-Mr and Mos	Apolo American		Leing (J.)Apr 28	Final 1,875
		Inv TrustApr 14	Finel 440c	Land Secs May 19	Pinet 6.25
	Gudgeon have each sold 132,000	Assoc Peper		LaportaApr 26	Finel 5.25
	ordinary at 50p per share.	I . Inda. May 1P.	. Interior 1.2	Laird Group Apr. 9	Firmet 2.1 .
J.	Squirrel Horn-Jan Yates sold	) ANZ	Interim 14 cts	Lloyda and	
S	25,000 ordinary and now holds	Products Apr 20	Finel oil	Scomsh. May 12	Interior 1.0
-	709,903 (13.92 per cent),	BL Adam 18	Figoi mil	Marks and SpencerMay 4	TT -1 0 00
_	Corton Beach (Holdings)-Mr	BC May 18	Interior 2 72	"Menzies (1.)Apr 30	Pinel 3.25
•	Alex Birchall has acquired, for	BPCCApr 5	Firm 5.01	Minet:Apr 20	Final 3.4
•	an undisclosed sum 200,000	*BSG lestApr 17	Finel nil	Bronger	· CHIMI ZI
,	an unuscrosed sum, 200,000	BPCC Apr 5 "BSG Inst Apr 17 "Benk of IrelandMay 17	Y	CrucibleApr 12	Final 4.0
2	shares (8 per cent).	Irefend. May 17	Finel 10.5	. Mowlem	11101 74
		TRANS OF		(John) Mey 4	Final 8.4
		ScotlandApr 18	Final 13.5	NEI (John) Mey 4	Final 3.25
	+ + + + + + + + + + + + + + + + + + +	Bannow	2 1 11 1	Newwith!!! "Apr 11	Final 9.0
	ALS IN BRIEF	Hepburn Apr. 16	Fined 1.4	Northern	
-	ALD IN DRIEF	Blackwood:		Foods, Jim 20	Interim 2.25
	10, 00, 00, 00, 00, 00, 00, 00, 00, 00,	Blue Circle	Pinal 6.1	*Peerson (6.)Apr 17	Final 7,45
	1 11	Inde Ans 20	Final 42.25	Polly Peck May 19	
	respect of 65.09m shares (about	British Home	(31M) 12-20	*PortelsApril 12	Finel 9.75
	92 per cent). Accordingly, Hamil-	Stores Mey 8	Skel 75	HMCApr 15	Final 6.5
	ton Oil Corp intends to acquire	*Baxton		*RMC	Filmel 3,5
	the rest of the share capital com-	Estate. Apr 71	Final 28	ZincApr 11	M 455 F
,	The rest of the state capital com-		Interim 1.0	Royal Bank of	Final 1P.5
•	pulsorily. The offer remains	Burmeb Off Apr 11	Final 7.5	Southard, May 5	Interim 3.0
•	open for acceptances.	Costs Patons Apr 11	Final 28	ReberoidApr 12	Fine 4.0
	* *	Costsin	Finel 7.0 "	"RUGDY PORTING"	
ı	Brixton Estate is to acquire		Ficel 2.25	ComerceApr 8	Final 2.9
	from the Taibot Motor Company		Final 4.75	Semuel Props Apr 28	Interim 1.43
	25 acres of land adjacent to its			Sears Mey 10	Final 2.1
ı	100 acre Woodside Estate at	Runing Apr 25	Brightin Oct	Serior EngApr 1p	Finel P.75
	Dunstable for £1.75m. : Outline	EIB Apr 28	Final 3.5	Smith (W.H.)Apr 25	Final 9.25
ī	planting appears by the conting	European		*Smiths Inde Apr 11	Floor 4.25
	planning consent has already	Ferries May 5	FIRST35	Suntight	Interim 4,0
	been granted for an industrial		Final 2.5	ServiceApr 29	Fire! 3.638
ı	and warehouse estate. The new	Extel		Termed	Finel 7.8
•	estate which is to be extensively		11091 T.65	Taylor	Tion Inc
	landscaped will be called	Refuelling Apr 28		Woodrow Apr 10	Firmt 14.0
	Woodside Park	French Kier May 3	THOM 1.9	Telephone	
	* * *	Gerrard and	rinan a a		Final 3.0
	Arbuthnet Produce, B subsi-	National May 4	Floret 14.0	Trafision House May 9	
	diary of Dow Scandia Holdings,	-GHI and		THE PROPERTY OF	Interim 4.0
,	has sold its interest in Marcuse	Outline Acc 19	Finel 4.8	Vaux-	TIME 3.2
	Dorme and Co. to Arthur Bary	GlaxoApr - 9	Interim 2.75	Scewerice:May 12	Interim 3.025
	Sold Cooks We Warmer Bary			WORK MAN 17	Interior 1 32
	field Group. Mr Marcuse was a	Metropolitan May 18	incerion 3.875 ···	WhitesedMay 17	Inserim 2.5
	founder member of Marcuse	(Matthew)May 11	B 4 044	ONDITIONS	Finel 3,75
	Dorme and Co., but left the com-	"Hambro life Abe ?"	Plant 9.094	"Wimpey (G.) Apr 28	Finel 2.15
	pany to join Landauer when	Hambro Life Abr 77 Heath (C.E.) May 19	Fine 9.075	Wolverhempton &	.7. 1
	Arbuthnot Produce decided to	LIGHANGE .		Codley Brews May 13 Board meeting intime	interior 7 3
	sell its interest in Marcuse	5iddeleyApr 20	Finel 1.61		
•	Dorme.	Henworth (J.) May 10	Interim 1.59	lestre since mede. 1 For	Brief .
	The new division of Landauer			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
•					-

# Granville & Co. Limited Member of NASDIM 27/28 Lovat Lane London EC3R SEB Telephone 01-621 1212 Over-the Counter Market 2.765 1.628 4,847 13.601 5.64 2.081 17,410 5.021 34,080 7.410 1.050 2.960 1.965 2.826 10.985 1.985 2.826



# FINANCIAL TIMES SURVEY

Monday April 9 1984

# Cleveland, Ohio

Cleveland is in a period of awkward transition. As older labour-intensive industries decline it is searching for its share of new technologies and services jobs

ONLY 180 YEARS ago, Clevecouple of shacks on a marshy flood plain where the Cuyahoga river empties into Lake Erie. But nature had already singled it out for an eventful future.

Standing at a vital route intersection it exploded into growth as the American industrial revolution swept through the North East, successively absorbing and profiting from the waves of investment in steel, oil, motor cars and general metal working.

That great wave of manufacturing expension has now flowed on. Today, Cleveland wears the unmistakably fading look of a nineteenth-century boom town, its sprawling steel mills smoking fitfully along the banks of the Cuyahoga, while its commercial centre, sprinkled with the architectural evidence of a prosperous past, seeks a new future with a rash of modern office buildings.

## Fading look

It is by no means clear as yet what this future will hold. Like most of the great metal was not particularly surprising producing centres of the western. Like other U.S. manufacturing midst of a period of awkward

This change was brought home to it, and to all the world. likes to forget—the bitter race riots of the late 1960s, which virtually coincided with the environmental row which broke out when the heavily pollnted

By TERRY DODSWORTH which had generated such enormous wealth in the past.

The shock of these events has undoubtedly altered attitudes. The glittering new city centre land was little more than a skyscrapers are the most visible evidence-that the city is trying to change itself, and its direc-tion, but the transformation by

no means starts and ends there. Politically, Clevelanders have taken a bard look at themselves and voted in a sober Republican mayor who has been willing to increase taxes to balance the books. This new realism bas been accompanied by a broadbased move in the business community to re-inject some dynamism into the city's

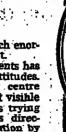
Industry.

The problem these new pioneers face is one that is common to much of the American north-eastern industrial belt. From Detroit to Pittsburgh, the old boilerhouses of the U.S. manufacturing system are in decline as demand moves on to newer technologies than the ones they gave to the world. There are a number of sometimes conflict-ing explanations as to why this evolution in industry has hit the region so hard — but virtually everyone is agreed that it was compounded by a

dangerous mood of complacency in the post war period. In one sense, this attitude was not particularly surprising. world, Cieveland is now in the areas, Cleveland was lulled into midst of a period of awkward a false aense of security by the golden era in industry which broke out between the end of the depression and the oil sbock of the early 1970s,

Steel production boomed in this period, while the steady expansion of the U.S. motor industry brought prosperity to its component and machine tool companies. But these were also

with the state of the state of



# In 1982, Cleveland was recipient of the Ali-America Cities award, having recovered financially after defaulting on its fiscal obli-

gations in 1978; Cleveland was the first city to default since the great depression. • The Cleveland Foundation

begun in 1914, is the country's oldest and largest community foundation, with assets of more than \$200m. It contributes over \$10m annually to such local programmes as family planning, care for the young and the aged, and various neighbourhood revitalisation projects.

The Cleveland Clinic, founded in 1921, has become one of the largest privately funded and acclaimed medical

tools and steel, both industries which are either asking for quotas or already bave them.
According to a recent study ublished by the Ameri-Trust band and prepared by the SRI research organisation, however, the impact of internal U.S. com-petition has been even greater. Ten years later, Cleveland the years which sowed the resulted in import market As the basic industries evolve defaulted on some of its debts, seeds of the future setbacks shares of between 25 and 30 towards new production the final ignominy for a city U.S. industry had been so per cent, is just one example of methods, they are shifting their

land has 26 savings and loan associations with combined assets of nearly \$13bn. Total bank and savings and road assets in the Greater Cleveland area amount to ever

• Greater Cleveland ranks tenth nationally in newspaper markets with 23 dailies with a combined circulation figure of more than lm.

• The Erie Canal, in use by 1832, along with the opening of the railroad in 1851, made Cleveland into a major port. linking it with the eastern markets. Over 1,200 cargo ships a year dock at Cleve-land's 65 docks, annually loading or unloading more than 20m tons of goods.

• One of the cultural centres of the U.S., the Cleveland Symphony, formerly con-ducted by Lorin Maazel, is considered one of the "Big Five," and the Cleveland Museum of Art ranks with tha

greatest museums in tho

Ranking fifth in the U.S. Cleveland is beadquarters to more than 30 corporations listed in the Fortune 1,000. John D. Rockefeller, a native of Cleveland, began bis Stan-dard Oil of Ohio, Sohlo (the first link in his chain of Stan-dard Oli companies) in 1870. Other famous Clevelanders are Mark Hanna, a U.S. Senator and Henry B. Payne, who also served in the Senate. Jeptha P. Wade, a prominent Cleveland businessman is best known for combining 13 different telegraph companies into what became known as the Western Union Telegraph Company.

RIVKA NACHOMA

organisation, "No one will build a plant in Cleveland like Honda's in Columbus," says Mr Theodore Aldred Dean of the Weatberbead School of Management at Case University, "because no one walks into the United Auto Workers unless he has to."

As this example shows, Cleve land is now losing jobs to areas which are virtually on its doorput heavy responsibility for this step in southern Obio, and to "something reasonable" to decline upon trade union where a lack of industrial tradi- keep companies in Cleveland.

tion is seen as a positive advantage,

Management also comes in for lts share of criticism. The last 20 years have seen both a slippage in U.S. Investment and a willingness to compromise on productivity which is now heing paid for in lost markets. The cheap dollar policies of the 1970s in no way prepared industry for the tougher competitive climate.

The impact of these failures is clearly shown in the employ ment and demographic statistics for the area. Cleveland's populafor the area. Cleveland's popula-tion peaked in the late 1950s, when it approached Im, but it has since fallen steadily to reach 574,000 by the last census

The city has an unemploy-ment rate of almost 14 per cent, ment rate of almost 14 per cent, and in the larger greater Cleveland Standard Metropolitan Statistical Area, non agricultural employment has fallen from 874,000 in 1978 to 817,000 last. year. In the same period, service jobs bave increased only margically, while manufacturing johs fell by almost 23 per cent to 210,000.

Some of the factors which have produced this stark pic-ture of decline will be virtually impossible to reverse. The steel industry, for example, has now moved irreversibly towards an International commodity structure and will never again employ the numbers it once found necessary in the U.S.

At the same time, the drive towards factory automation and manufacturing productivity is cutting away at the employment base in many of the industries which were the foundation of the Cleveland economy. Given that some of these

basic industries seem ready for even further shake-outs, it is difficult to see how the city can escape quickly from its down-ward spiral. Even so, some experts argue that the severity of the contraction may have a beneficial effect in the long run.
"People always underestimate the forces of equilibrium which are at work in institutions," says Mr Alfred, pointing to some

local union contracts where

examples of this process of self adjustment is in the way the city bas rallied to the efforts to put its finances back on a sounder footing. This move has had both a political and an institutional dimension. Politically, it hrought in a mayor, Mr George Voinovich, with a sufficiently strong mandate to be able to push through two personal tax increases levied on city payrolls, although he has failed with a third effort, Insti-

tutionally, it has enrolled husi-ness and the professions—and

to some extent the trade unions
—in a drive to reinvigorate the

CONTENTS

Banking: when prudence

Politics: the city shakes off

Services: sector shows

Legal services: a good

effects of recession

Manufacturing Industry:

IV

IV

place for lawyers

its debtor image

strong growth Health Care: centre for a

large network

Profile: Tecmar

Profile: Hygrade

pays off

city.
The main hope for the future, however, must lie in an entrepreneurial re-birth of the kind which has suddenly lifted Boston out of the rut over the past 10 years. Venture capitalists in Cleveland give the impression that there is plenty of money available for new projects if only the entrepreneurs can be found to use it — indeed, the Morganthaler Management Corporation, the largest venture capital organisation in the area, and one of the oldest in the country, does much more of its husiness outside the region than within it.

There are many hard-nosed businessmen in Cleveland and the North East who believe that this recovery will emerge wages have been brought down once the natural process of cost

## MILESTONES IN THE CITY'S LIFE

centres in the world. Honsed in 15 buildings over 11 square blocks, it has over 1,000 beds. was exposed to little international competition at home, and had ready markets over-

seas. The challenge was to produce, not sell. The rise of Japanese industry and the reconstruction of Europe altered this comfortable operating environment. The foreign car invasion, which bas

dominant after the war that it this trend; a similar phenomenon is evident in machine

This institution, a leader in the fields of artificial organs

and treatment of cardiovasc-lar diseases holds claim to

numerous medical advance-ments, such as practical use of

one of the earliest heart and lung machines, development of coronary eine angiography and cardiac catheterisation, as

well as the artificial kidney.

A team at the clinic's Artificial Organ department is

now in the process of developing an artificial heart

• The city is bome to the Fourth District Federal Re-

serve Bank, two national investment banks, McDonald

and Company and Prescott, Ball and Turben, and two of

the top ten law firms in the country, Jones, Day, Reaves and Pogue and Squire, Sanders and Dempsey. Cleve-

green-field investments away from the North East to undeveloped farmland areas where wages are lower and workforces more open to change,

Eaton, the motor components manufacturer, is an outstanding example of this trend; once a major Cleveland employer, it now has virtually no manufacturing jobs in the city. Some economists and analysts

IN THE CITY.



Ohio is at the heart of where innovation and industry unite.

It's a place where advanced production technologies merge successfully with basic manufacturing processes. That's why investing in Ohio is an investment in the

Ohio is truly at the heart of a progressive

business environment. We're at the heart of accessibility with over 800 airports in Ohio, each separated by an average of just three minutes flight time. Over 50% of the total U.S. population lives within just a day's drive of Ohio - a claim

neither New York nor California can make. We're also the heart of an international business market, with Ohio ranking behind only California and Texas in total exports. Foreign investment in Ohio is over \$330 million, and international trade accounts for nearly 15% of Ohio's Gross State Product.

In the polymer industry, progressive Ohio corporations such as Goodyear, Goodrich and Firestone are working closely with respected scientists at Case Western Reserve University and Akron University to successfully turn today's scientific advances into practical technologies for tomorrow. The Ohio polymer industry proudly ranks second nationally in production.

This commitment to unite theory with practice has also made Ohio a world leader in the robotics and machine tool industries, ranking us second nationally. In fact, predictions are that over 25% of America's robotic machinery will be at work in Ohio by

Ohio's government officials, educators and business leaders have forged an alliance for industrial progress. A hallmark of this cooperative effort is the Thomas Alva Edison program. This state-sponsored partnership, the largest of its kind in the U.S. provides \$32.4 million to bring universities and businesses together to develop new technologies for improving productivity in Ohio

Innovation and industry. Progress and production. They all come together in Ohio. So if you're planning to invest, investigate Ohio ... the heart of advanced business activity.



For information and assistance, contact Dr. Phillip Code, Ohio Department of Development, Division of International Trade. 30 East Broad Street, Columbus, Obio 43215. Phone: (614) 466-5017 ... Or see us at the Hanover Trade Fair at Hall 17, Stand 11S.

National City Bank is the only Ohio bank with a London office. We are Ohio's leading corporate bank. If you have or are seeking business interests in Ohio, we can be of assistance.

Contact National City Bank's London representative office at the address below or our world headquarters in Cleveland.

National City Bank. Financial Problem Solvers, serving business concerns since 1845.



Representative Office 65/66 Queen Street London EC4R 1EB Telephone: 248-1456

World Headquarters 1900 East Ninth Street Cleveland, Ohio 44114-3484 Telephone: (216) 575-2000

A MEMBER OF NATIONAL CITY CORPORATION, CLEVELAND, OHIO MEMBER F.D.I.C.

Sm

6,585.9

5,797.1

4,282.8 2,900.0

# Prudence cushions the shocks

Banking

TERRY DODSWORTH

CLEVELAND'S BANKS have rarely figured big in the record books. Sandwiched between books. Sandwiched between the giants on the east and west coasts, overshadowed in size by their near-neighbours in Chicago, they have established a reputation for e brand of prudence which verges on con-

in Third World lending, every into the non-accruel category investment and real estate. after 60 days of non-payment Indeed, whereas many U.S.

banks were shrinking their assets last year, as they cut back loans to improve their capital ratios, the Cleveland banks were adding to their loan portiolios. One of them, Society Corporation, expanded its book by around 25 per cent, and Netional City's also went up by 15 per cent.

This is not to say that they have no problem areas. National City had to make loan loss pro-visions lest year of \$23.9m, and AmeriTrust. which has been stung in both Mexico and Brazil, also provided \$17m after setting eside \$41m over the

The only thing we overlook is

the North Coast

Cleveland, Ohio 44114

BV – the unique bank in Cleveland

If you're looking for an experienced European bank in

Cleveland, Bayerische Vereinsbank should be your choice.

BV, one of the largest financial institutions in Germany, is the only German bank with an office in this major commercial, industrial and financial region.

Our over six years of active experience dealing in this region gives us unique capabilities in servicing your

Our Cleveland office is an integral part of our North American network. BV has outlets in New York, Chicago, Atlanta, Los Angeles and Grand Cayman.

For further information contact:

Mr. John T. Gray, Vice President

Bayerische Vereinsbank AG, Cleveland Office
Ohio Savings Plaza, 1801 East 9th Street, Suite 920
Cleveland, Ohio 44114, Telephone (216) 566-8055
Telex 62850 ubb uw International, 126745 ubb nyk b Domestic

Bayerische Vereinsbank AG

Head Office, International Division

Kardinal-Faulhaber-Strasse 1, D-8000 München 2

Telephone (089) 2132-1, Telex 529921 bvmd

AKTIENGESELLSCHAFT

BAYERISCHE VEREINSBANK

Ohio 800-362-2727

At the Bond Court Hotel, you'll find "smooth sailing" for all of your meeting needs,

with 526 extra large rooms, 45 suites, a

Grand Ballroom for up to 1,200 theatre style and 18 breakout rooms for 10-300. So "slip" on up to see us for your next session!

U.S.A. 800-321-1090

777 St. Clair Avenue

Sales Office (216) 771-7600

varied needs.

banks from the worst of the lt admittedly uses the conserva-problems that have hit others tive method of putting loans of interest.

By the standards of many U.S. banks, however, the Cleveland banks have maintained a solid safety margin. Their loan loss

\* Agreement in principle for the merger of BancOhin Corporation, Columbus, with assets of \$6.1bn, into National City Corporation.
† Approved received from Federal Reserve Bank of Cleveland to acquire The First National Bank of Salem, transaction effective on January merge Interstate Financial Corporation, Dayton, with assets of \$1.1bn into Society Corporation, filed with Federal Reserve Bank of Cleveland.
† Centran Corporation showed a loss of \$58.7m for the 12 months of 1982. Research: Rivka Nachoma

Holding Company

National City Corporation\*... AmeriTrust Corporation .....

Society Corporations .......

Centran Corporation ......

reserves tend to be a little higher as a percentage of total loans than the average of 1.3 per cent for the industry last year, end they are, if any-thing, undergeared: Netional City's long-term debt stands at only 20 per cent of total capital, while Society Corporation's is Their spirit of edventure bas failed to match that of the large and successful manufacturing companies on their doorstep which have gone out and conquered the world.

This caution has its critics. But in the troubled credit conditions of the past few years it has also insuleted the Cleveland

City had to make loan loss provided \$23.9m, and AmeriTrust's is visions fest year of \$23.9m, and AmeriTrust's is zero. By contrast, most of the top 20 U.S. banks operate with long-term debt of more than 30 per cent of capital, while Citicorp, the industry leader, has a ratio of 68 per cent.

Their spirit of edventure bas failed to make loan loss provided \$17m after with long-term debt of more than 30 per cent of capital, while Citicorp, the industry leader, has a ratio of 68 per cent.

The filp side of this emphasis on cautious development is that

the Cleveland banks bave not also grown at anything like the same rate as the pace-setters in the U.S. industry. According to the letest analysis by Forhes magazine, asset growth in the bank-ing sector over the past four years bas averaged 11.3 per cent, while equity per share has grown by 8.7 per cent. None of the Cleveland banks bas matched these forms matched these figures.

The fastest growing group, National City, achieved 10.6 per cent in asset expansion, but only
6.8 per cent a year in equity
ber share, while AmeriTrust's
assets grew at a rate of only 2.8

State-wide structures.

Profits have suffered to some extent as well. Over the same four year period, none of them has quite matched the industry's average annual growth of 8.4 per cent.

This reflects National City's fall from grace in its portfolio investment business, which bad provided a large slice of its profits in the 1970s, but which took a knock when the Federal Reserve Board changed its monetary policy in 1979; and at AmeriTrust, which consistently earns e healthy return on its assets, it underlines a failure to gear up sufficiently on its equity base.

It is tempting to see this pedestrian performance as yet another indication of the economic malaise which has overtaken Cleveland. Until the 1970s, the banks were operating in one of the strongest economic environments in the U.S. As growth drifted to other areas of the country, they bave inevitably suffered in not responding with an aggressive drive to expand their asset base else-

Today, bowever, a more edventurous policy is being forced upon them. Like banks throughout the country, the Cleveland institutions are now faced with the prospect of a new deregulated structure which will allow them to more their deposit operations outside the State — and which would allow · outside

Growth rate

-3.5

+9.5

+3.6

\$m

29.3

rate

+10.2

+ 9.6

NA<sup>‡</sup>

Competitors.
Until 1978, the Ohio hanks bad operated within theoretic elly limited marketing areas based on county structure; However, a form of State-wide banking was feasible even at that time, through holding company structures which allowed groups in one county to invest in banks in other areas as long as the two businesses were kept operationally separate under the parent company umbrella. Using this loophole in the law, several banks developed embryo

Rash of takeovers

Six years ago, the State gave a further nudge to this process of integration by altering the regulations to allow the complete merger between the so-called multi-bank bolding companies and their subsidiaries, and allowing them to branch undar their own names across county lines. Another rash of takeovers followed, reducing the state's total of banks from 400 to 337 in the ten yeers tn 1983.

This wave of amalgamations has left Banc One as the leading institution in the state in quity base. terms of assets, although It is tempting to see this National City is now heading

for the premier position through its agreed bld for Bancohio. If this deal goes Bancohio. If this deal goes through—and there seems no reason why it should not—National City will emerge with assets of around \$12bn, pushing up its ranking in the national league from 48 to 28, against league from

CLEVELAND-BASED BANK HOLDING COMPANIES (year ended December 31, 1983)

Total

4,223,5 3,367.1

+10.0

retail banking, but we recognise that we cannot generate the necessary loan growth inter-nally. Consequently, we have nally. Consequently, we have made it clear that we shall be active in acquisitions." Society is not so obviously

Remm

8.29

12,15

Previous

10.65

on Previous

year ·

absorbed by someone else relatively straightforward Bill is now on the table at the State legislature, saying simply that the local banks will be allowed to ally with banks in reciprocat-ing states.

9, 1984. Application to

mational, makes no bones about the fact that this policy of local state expension is the fact that this policy of local state expension is the fact that this policy of local state expension is the fact that this policy of local state expension is the fact that this policy of local state expension is the fact that this policy of local state expension is the fact that this policy of local state expension is the fact that this policy of local state expension is the fact that this will not go through the thing are in the hanks themselves come to the position to play a constant they ware split right down the middle.

\*\*Bunking arms\*

\*\*Bunking arms\*

\*\*Bunking arms\*

\*\*Bunking arms\*

\*\*Bunking arms\*

\*\*Covers\*

State gave is process which is expected to sweep cross the U.S. during the new commercial banking to parasistion." It is a series of state we want to grow and expand on the method on the process of the series of the commercial banking the commercial banking the process of the series of the process of the series of the commercial banking the process of the series of the process of the process of the series of the process of the process of the series of the process of the

# Cuts and corporate sector aid recovery from default

**Polities** 

PETER BRUCE

TRYING TO bold e conversa-tion with Dennis Kucinich in a downtown Cleveland cafeteria can be frustrating. People keep coming up to pat him on the back, shake his hand, talk ebout old times, as one retired judgedid, or of new plans.

Mr Kusinich is popular in some quarters but mere mention of his name invites almost universal condemnation for

versal condemnation from Cleveland's normally generous establishment which supports tra, and art museum, and which has belped Cleveland become the ntaon's major per capita contributor to the United Way, the biggest charity in the U.S. In 1979 the establishment broke

Mm.

Kucinich used to be the mayor of Cleveland, but his extraordinary rise to prominence—at 31 be was the city's youngest ever leeder when elected by a slim majority in 1977—effectively came to an end on the morning of December 15 a year later, when local banks pulled the carpet out from under bis feet and declared Clevelaod in default.

He was thrown out of office at the next election, in 1979, despite winning a tax increase to beip pay off the city's debts and despite winning by a 2-1 margin a referendum supporting his decision not to raise the money by selling the Cieveland power utility inhights land power utility into the private sector—an option be maintained was put to him by the banks.

"I would have been Government of Ohio today if I had done the deal," he says.

But the default, on debts that had been rolled over before, was not altogether surprising. Kuclnich had antagonised Cleveland's powerful business community early on character. community early on, character-ising corporate leaders as either greedy or self-seeking and be bad also lambasted the city council as "buffoons." He had also focused nationmide ettention on Cleveland by gathering around him a coterie of young, loexperienced officials (his financial director was then 36, bis assistant safety director 22, and his school board president 27).

Personal protest

A few days after the default was declared and true to bis populist style, be strode into downtown bank and publicly withdrew his personal eccount in protest. in protest.

A delegation of top businessmen, incensed by the antics of

their mayor, had by then approached George Voinovich. Ohio's lieutenant governor, and a Republican, and got him to

quents" as Barrons, the U.S. sources bave been pruned. says he was not consulted about have come to resemble, in scale, financial weekly, call the The cuts so far have been the bar mill by the mayor and if not detail, those of any other Kucinich edministration, out of relatively minor, but rationalis, fought against it as the minimature U.S. metropolis. And the way, corporate Cleveland ation of services wasn't steel mill industry in the U.S. that is an achievement in itself.



Cleveland Mayor George V. Voinovich, in office since 1979; between the city's public and private sectors.

was quick to restamp its mark on the city's administration.

Voinovich began calling in private sector help the day he entered office and a team of accounting firms and five corporations began rummaging through the city's books.

The mess was remarkable. Accumulative city debt turned out to be more than \$100m. Parts of City Hall were unpersoned to be part of the city's council president.

The mayor failed in February to win a further cians are irrelevant to Cleveland's sbort-term future. Responsibility for this seems to land voters contribute only rest for now squarely with the around 30 per cent of total business community.

The mess was remarkable. Accumulative city debt turned out to be more than \$100m. Parts of City Hall were up-

The mess was remarkable. Accumulative city debt turned out to be more than \$100m. Parts of City Hall were unoccupied while municipal employees were billeted in expensive downton. pensive downtown offices. The private sector task force brought in by Vninovich eventually came up with a list of 650

years), were getting along famously. Peace had broken out, the books had been balanced.

Last year Cleveland successfully reentered the bond markets, raising a modest \$37.75m issue to belp repair e crumbling infrastructure end some of the 11,000 potholes that dot the

The sale of the bonds was an important boost to the administration whose efforts to get Cleveland's credit rating with Moody's and Standard and Poor improved had failed a month or two before. Cleveland has been back to the debt market again, this time for more than \$50m. city's streets. The Cleveland banks had also

agreed, on pain of a three, year financial recovery plan, to convert the city's debt into iong-term bonds and to top it all.

Voinovich was re-elected with a way of the city's plan to top it all. whopping majority in November 1981, to e four-year term after voters bad agreed to extend the mayoral term of office from two years. The mayor's office is now beginning to get a little steamy however. "Tranquility is not a natural.

atate of politics here," says Rucinich, who, to the horror of

rolls): He then retalieted by cutting back some services, an action that flew right back at him in the form of a blizzard so severe that the city found it did not have the resources left to clear the streets of snow.

economies designed to save an immediate \$37m and e further \$57m a year.

Meanwhile, the new Republican mayor and the long-serving Democrat at the bead of the city council (Furbes has been council president now for 12 primities of his black constitutions).

Product steet pars in crevenand.

Volnovich says he is certain the project will go ahead, but steel industry analysts doubts its viability, and point out that Republic Steel already has two mothballed steel mills in Cleve-

function and interest in an interest in a reported to be talking to other authorities in the region about elected by corporate Cleveland to map out that future, have analysts say, building two would be a nonsense and there is a population.

danger that Voinovich's administration could be embarrassed if the mill is not now built in Cleveland.

Cleveland.

has traditionally not employed organised labour.

Valenta, a potentially powerful influence on the big blue collar vote, in Cleveland, says he would not support Volnovich again. "The honeymoon," he says, "Is over." On balance, nowever, Voino-

On balance, however, Voinovich is still ahead of the game and with an election coming up next year some local observers believe he may decide to quit while he is ahead. The mayor says he hasn't decided yet but that he has been approached about possible moves towards either Columbus, the state caultal or Washington. capital, or Washington.

One barrier to getting out unscathed could be the lack of an says one city lawyer. Another intriguing possibility could be an attempt next year by Dennis

a discussion group set up by Mr E. Mandel de Windt, chairman of the Eaton Corporation, in 1981, serves to bring together as many of Cleveland's diverse ethnic political industrial and labour interesta as possible in an attempt, as its director, Sarah Austin, describes, to "rational-

ise and prioritise Cleveland's agenda."

The Cleveland Tomorrow Committee on the other band, also established by Mr de Windt and other business leaders in

and whose finely tuned sense of compromise between the primities of his black constitution in parons is legendary, is also in some trouble.

Police union upset

Forbes has upset the local police union by vacilisting on their demand to be given more powerful handguns. His personal finances have elso caused him some embarrassment—he recently falled to pay his water bill until it was around \$806 in arrears and his law firm has had federal tax liens filed against worth \$30,000.

Voinovich has also backed and won the support of voters on a proposal to put up nearly \$8m to encourage an entrepreneur to build e modern mini mill to produce steel bars in Cleveland.

Voinovich says he is certain the project will go ahead hur sized fine and other business leaders in and other business leaders in and other business leaders in advance, coming out as it did in 1981 with a programme for revive Cleveland's economic fortunes.

Cynics are probably being unfair, in arguing that the Round Table exists to do little more than bring community leaders in behind the Cleveland Tomorrow programme, but there some signs of frustration at the time being taken to tackle what corporate leaders believed to be the local economy's biggest problem—bigh wages—and this was one of the issues the Round Table was supposed to deal with.

Only a handful of union leaders sit on the Round Table and Sarah Austin concedes that the body is still "trying" to filter its message down to union rank and file. Mayor Voinovich says the secretain the project will go ahead hur sized.

filter its message down to union rank and file. Mayor Voinovich also says that the management-labour, consensus. "is not happening quickly enough." Even Dennis Rucinich adsalts that business "has a legitimate function and interest in the

Republican, and got him to oppose Kucinich at the next election, which be did, successfully, et the end of 1979.

Vninovich had not a little belp from the powerful city council president. George Forbes, e Democrat, who refused to back Kucinich and thereby deliver the city's important black vote.

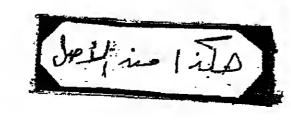
With the "juvenile delinger of the stations closed to back out the city's important black vote.

With the "juvenile delinger that Voinovich's admin the horror of danger that Voinovich's admin istration could be expharrassed sound, or at least comissent, cleveland. City Hall's support for the train and et least a veneer of be is having to compromise in bar, mail has, also ellenated civic consensus. Cieveland base cleveland's steelworkers. The probably not had a bestar United Steelworkers Union opportunity in years to resolve the city's important black vote.

With the "juvenile delinger that Voinovich's admin istration could be expharrassed sound, or at least comissent, the management to city government, a national economic recovery in bar, mail has, also ellenated civic consensus. Cieveland base Cleveland's steelworkers. The probably not had a bestar United Steelworkers Union opportunity in years to resolve the city's important black vote.

With the "juvenile delinger that Voinovich's admin istration could be expharrassed sound, or at least comissent to city government, a national economic recovery in bar, mail has, also ellenated civic consensus. Cieveland base cleveland in the Cleveland's steelworkers. The probably not had, a bestar United Steelworkers Union opportunity in years to resolve the city's important black vote.

With the "juvenile delinger that voinovich's admin to could be expharrassed sound, or at least comission, and the city government, a national economic recovery in train and et least a veneer of the city consensus. Cleveland base consensus. Cleveland civic consensus.



# هكذا من النصل

# Strong growth offers an unexpected lifeline

Services PETER BRUCE

ASK ANY Clevelander what the city's fastest-growing privately-held company produces and most would prohably suggest a sophisticated piece of machinery. In fact, for the past two years, the prize has gone to a father and soo who rum a string of parting loss.

In a city where manufacturing giants like Republic Steel, Eaton Corporatioo, TRW, White Consolidated, Parker Hanifin, Acme Cleveland and Sohio have grown up, the 3,252 per cent growth in Kassouf Parking's furnover last year to \$5 9m turnover last year, to \$5.9m, might reasonahly be considered a near heresy. But that is not the eod of it. Cleveland's biggest employer used to be Republic Steel—now it is e hospital. The cluve feature mention pital. The city's fastest growing industry is no longer the motor components business, but the

There has been a sharp change in the city's industrial profile in the past five years. As virtually every sector of the diversified manufacturing eco-nomy has fallen foul of the recession, so has an apparently immune services sector shruggad it off. While manufacturing employment fell from 276,300 in 1979 to around 212,000 towards the end of last year, service jobs, excluding finance, insurance, local government and property, rose from 184,200 to nearly 200,000. In the past 10 years, aervice industry. jobs have increased by well over 30 per cent

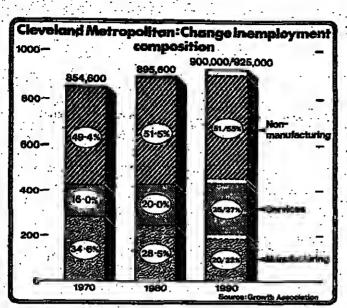
## Rewards

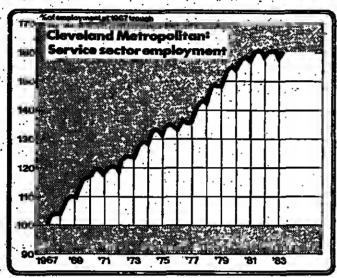
manufacturing sector in general, has given heart to big husiness in the city. "Anytime you move from manufacturing in-dustry to services you protect Yourself from groles " says one yourself from cycles," says one AmeriTrust economist.

This growth is partly (the local Chamber of explained at least by the fact Commerce); that while many of the major. The services lifetime often have cut back severely, it not totally, on production in and around the city, their headquarters have remained and local legal and accounting firms, con-

commanding view of the freight routes between the Eastern sea-board and the heavy industry around Chicago and Detroit the very things that attracted manufacturers to Cleveland in the first place — are likely to remain an important impetus to investment in distributive

But perhaps because the stump in manufacturing employment has been so sudden, and so steep, neither the business, nor the academic community knows, with any degree of cer-tainty, just why the service industries have taken such a hold.





The strength of Cieveland's the growth, the fact of it has service sector, and of the non-come as an enormous relief to city's busy strategists, "I've always telt we have the strongest management services an economist with the Greater Cleveland Growth Association (the local Chamber of

that while many of the major Cleveland-based manufacturers have cut back severely, if not totally, on production in and around the city, their headquarters have remained and local legal and accounting firms, consultancies, and other skilled professionals have been able to reap the rewards of industrial expansion in the south, where labour is cheaper, and abroad.

A second, and possibly less fragile comfort is that the city's position on Lake Erie and its and constraint of the services lifeline often been lost since the early seventies—around five have moved and around six bave moved and around six bave moved and around six bave moved and around six been dest through mergers or taken and around six been dest through mergers or provided about the first professional shape been lost since the early seventies—around five have moved and around six bave manufacturer of Harris.

Beginblic Steel and Jones & manufacturer of printing equipment. ITV of Dallas and while the new steel group's operational headquarters will stay in Republic's building in position on Lake Erie and its tives there expect some key operations, including the legal and financial departments, will have to report to Dallas. Cleve-land's service sector will have to fight to hold on to the business.

cleveland State University seem as if these companies are Cleveland, with its higgest economist, argued in 1977, however, that the contribution made than seotiment.

Cleveland State University seem as if these companies are Cleveland, with its higgest department store making record profits last year with the first to the economy by headquarter Cleveland's publicists are new car dealership opening jobs tended to he overshadowed quick to point out that the downtown in more than a hy publicity given to plant notion that multinational cordecade, and with new buildings closures and that one head-porete headquarters could be rising in the centre, is going to

Whatever the reasons behind a single production worker. It was theo, and still is, Dr Knight's contention that Cleve-land is in the process of estab-lishing itself as a centre of corporate brain power and advanced services.

Equally difficult to measure is

the degree to which those cor-porations with headquarters in Cleveland are committed to staying. About one-third of the city's major headquarters have

Although the new \$47m Eaton Center, the new \$200m Sohio headquarters, and the new \$80m fight to hold on to the business. TRW headquarters buildings.

It is difficult to judge just all in various stage of complehow important corporate headquarters are to the local the town's lawyers and auditors economy. Dr Richard Knight, a and doctors, it can sometimes.

quarters post in fact, supported sited anywhere in the U.S. find listenifive times as many local jobs as works as much in the city's hard to do.

but they are sensitive to the ettractions of the southern and western parts of the country. "I can't think of any reason why the headquarters should go." says the Growth Association's Trutko, adding, unprompted, "sun is fine if you want to

Quite whet the benefits of service sector growth have heen et the lower end of tha economic scale is also unclear. Redundant manufacturing workers lucky enough to find new jobs heve often heen forced to take dramatic cuts in pay. One 50 year old former Eaton employee earning \$12 an hour, now works at night for \$4 an hour at what a close friend describes as "packing things."

## Haunted

"There's a hig gap between all the fancy statistics and what the real problems are," says one local government official in the generally working class suburb of Brook Park. While some of the suburh's unemployed have been recalled by nearby motor plants more than half of those who have found jobs have had to take heavy pay cuts in re-turn, and most of these new lobs have been in the service

The prospect of a "service" mentality taking root in Gleveland haunts Frank Valenta, director of the United Steel Workers District 28. "Sure we want an improvement in services hut if there's no manufacture then there's nothing to service," he groans. "How loog can we exist cutting each other's hair and doing each other's

scale manufacturers, sentiment ebout the fashionable new services runs close to contempt My doctor and lawyer friends think its wonderful to have a dollar that's 34 per cent over valued," said one machine tool producer, "because they can go out and buy a Marcedes and spend a weekeod in London and have a lot of fun.

There is some evidence to suggest that the powers that be in Cleveland are listening to the fears voiced by Valenta. Proare being discussed bu essentially, he and other trade unionists, and many smaller manufecturers, worry about the speed with which the growth of services has been latched onto as either inevitable or desirable. What most worses these groups is that the growth in services, whether advanced or basic, has heen largely eccidental

.To an extent, these fears are echoed by Dr Knight. There is no strategy," he says, and the the solutions they were getting warning, left hanging in the air, from Cleveland were mechanils that the city is going to have cal not electrical." to find ways to add some sub stance, and quickly, to all the talk of strengthening those remaining hasic industries if the service industries do not

find one day that they are being

caried along on little more than a cushion of air. It seems, however, that Cleveland, with its higgest department store making record find listening to the sceptice

# The East Ohio Gas Company can put it all together for you,

Planning a business expansion?

. Site Recommendations carrent file of available sites, buildings, and industrial parks. We will recommend only those that meet highway, air, water and rail facilities. We will prepare for you an analysis of site specific transportation services as they relate to your business.

2. Financing Assistance **3.** Labor Analysis

We will help you assess qualification for local, state, and federal development financing programs including revenue bonds and guaranteed loans, and coordinate preparation and presentation of investment proposals.

3. Energy/Utility Services We will provide you with the complete energy utility picture and current service and rate information

about natural gas, electricity, water,

your needs and conditions.

4. Transportation Facilities 1. Community Profiles

We will provide you with documentation of local labor force and skills availability, wage rates, area population and unemployment date and proceedings with local officials, identify training programs which can be tailored suppliers and marketing services, even to meet your needs.

6. Tax Structures/Incentives 9. For More Information We will furnish comparative local and Please call or write to Gary G. Evans state data—including corporate, personal income, and sales tax rutes; and available tax incentives.

We will provide you with extensive profiles of communities you select ~

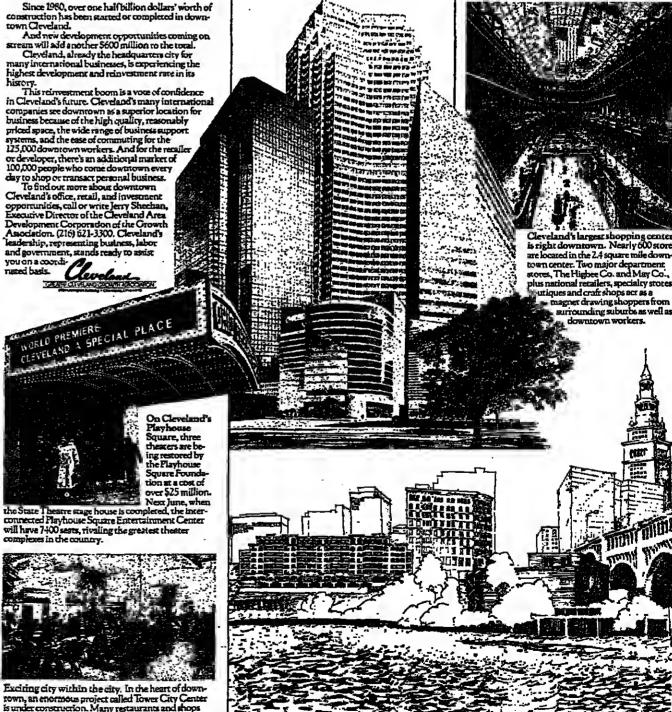
financial institutions, major employers and cultural and recreational facilities.

**O.** Planning/Coordination

EAST OHIO

and we can do it across Ohio. Call: (216) 348-6444

# Downtown Cleveland is attracting big-time spenders.



# Cleveland Clinic provides spin offs

## **Health Care**

PETER BRUCE

ON Thursday March 22 the first patients of the day were wheeled into operating theatres at the Cleveland Clinic just before 8.00 am. By the end of the day, surgeons had worked on 71 patients, a little below average, performing 10 heart hypass operations, restoring four hands, at least one kidney transplant, three mastectomies, repaired a damaged retina and extracted an impacted wisdom

At least one of the bypass patients spent the previous night in the Clinic Inn, a plush little resort in the grounds of what has grown to be the city's single higgest employer, before being sped into the theatre in the morning and by now, according to the clinic's law of average, could ha back at work. With some 32,000 admissions a year to its 1,008 staffed beds, in addition to seeing 500,000 outpatients, the Cleveland clinic has become the centre of the most insidious manifestaa sprawling healthcare network throughout the city, which now boasts some 34 other hospitals, with more than 10 000 hade with more than 10,000 heds, and, at the last count in 1981, at least 45 small clinics catering

for anything from routine check ups to drive-in surgery. It all started around 1921, when Cleveland became one of the first cities in the U.S. to have a group practice. The gathering of doctors proved to be stimulating particularly as

reached serious proportions locally. While treasurent of tha goitre itself was oot particu-larly difficult, removing the growths without massive damage to surrounding tissue was and the early clinic teams are still credited with pioneering what has come to be known as "less radical surgery" technique that has helped countless women come through mastectomy without severe damage to surrounding tissue. Although the clinic's first

sive swelling around the neck, seemed at the time to have

successes were surgical, a Dr Irvine Page arrived at the hospital in the Forties, having hegun to doubt the cooven-tional wisdom of the day which held, basically, that high blood pressure was a good thing. Years earlier he had noticed a link between hypertension and heart disease and strokes and with colleagues at the clinic he began to look for ways to treat

## Hypertension

malignant hypertension. At least half of the suffarers succumbed to kidney failure, it seemed, and in the Fifties and Sixties doctors at the clinic began to relate this to blockages io the arteries around the kidney. This took researchers into vascular treatments and led to the construction of tha world's first artificial kidney, a Sinal, has very little to do with has also in converted washing machine. the fact that two of the country's leading medical equiphospitals.

goitres, which produced a mas- maintaining whole body func- ment manufacturers are also tions by mechanical means was based in the city.
relatively short, enabling surPicker International, part of geons to do early work in open-heart surgery. By the late Sixties, with so much inter-action between disciplines at the hospital, accidents of good fortuna were hound to happen. The heart hypess operation was one, and came about when a cardiac surgeon strolled into a theatre to watch some collazgues rerouting an artery around a permanently damaged section of a kidney. The technique, he realised, could easily be applied to the heart. Nearly 30,000 bypass operations have

been performed since the first in 1967. The surgical successes, however, tend to overshadow the progress made in diagnostics during the research into cardio-vascular disease. The chiic developed the cardiac cathe-terisation technique in 1958 and it is now common through-

out the world.

The foundation that runs the clinic does so on a non-profit basis hut nevertheless does handsomely from it Revenues last year amounted to more than \$350m, with patients paying an aversge \$295 a night. "Everybody comes here." boasts one official. The publicity handouts list, among others, the kings of Saudi Arabia, Bhutan, Mary Pickford and the president of the Teamsters Union among past patients.

Ironically, the presence of a major health care centre in Cleveland, and other illustrious

are leading research into a ground-hreaking diagnostic machine that threatens to make the much-fussed-over scanne obsolete in just a few years. The Noclear Magnetic Resonance (NMR) technique does eway with poteotially harmful X-rays altogether and both pro-ducers have machines installed in Cleveland's hospitals for Picker, the oldar and larger of the two (with a turnover of some \$700m compared with Technicare's \$200m) has heen in Cleveland for 40 years and came to tha city not because of

its hospitals but because of its machine shops, to which it still

Britain's GEC, and Technicare,

part of Johnson and Johnson,

contracts out piecework on a range of medical equipment ranging from tables and beds to conventional X-ray machines. The presence of both Picker and Technicare, and around 30 other smaller medical equip-ment suppliers, has encouraged some Cleveland strategists to muse about a new medical equipment industry flowing into the city. Not so, says one Ameritrust economist. For one, the growth in equipment is likely to be in smaller, lighter products that could easily be shipped into the market around Cleveland and, argue some local equipment · Cleveland is already over-bedded. The State Govern ment, concerned at the rising hospitals including Mount cost of health services in Ohio, Sinal, has very little to do with he fact that two of the country on 'canital spending by local health services.

rown, an enormous project called Tower City Center is under construction. Many restaurants and shops have stready opened. When the 34-acre complex is completed, it will also encompass as many as 18 connected buildings and include office towers, major

# Strong base for law firms

LEGAL FOLKLORE in Cleve- up back et corporate heed-land does not actually detail just quarters. land does not actually detail just how the city's lawyers heve come to be as powerful as they are. One story has it that Andrew Squire, a founding partner of the city's higgest law firm, Squire Sanders and Dempsey, spoke at Presideot William T. McKinley's funeral in 1901. Squire, it is said, claimed to heve known four U.S. presidents on first name terms.

Even those companies thet bave moved eway have found the local law firms only too willing to follow them. Squire Sanders opened an office in Miami when Harris Corporation moved there and Jones Day followed Dlamond Shamrock to Dallas. Tenacity like thet bas helped the two firms' annual billings to grow to around \$50m a year, and that is e conserva-

A more credible link to Washington, however, probably comes through Mark Hanna, local industrialist. Republican Senator and chairman of the Republican Party around the turn of the century. Squire threw Hanna, and it was most likely that links of this sort drew Cleveland lawyers into a partnership with the industries that were beginning to flourish around the city.

Washington was, anyway, too far away then for local lawyers

## Legal Services

PETER BRUCE

to be able to profit from any political work and Squire, a business consultant, must have been bappy with the business opportunities closer to bome.

Industry, and e profusion of mejor corporate beadquarters in the city, bave spurred on almost embarrassing growth in legal service jobs in Cleveland, Between 1968 and 1980, for instance, law service employment rose nearly 85 per cent to some 5,000 people among Cleve-land's firms, two of which-Squire Sanders and Jones, Dey Reavis and Pogue—rank among the 10 biggest in the country.

The present chief at Squire Sanders, Mr George Meisel, clearly believes Cleveland is still a good place to be based in, even though the decline in manufacturing around the city has meant a decline in the amount of corporate legal work involved in union pay settle-ments. As the city's hig cor-porations have shifted their manufacturing bases to the more attractive (and compliant) west the legal work has piled ington.

Even those companies thet Dallowed Diamond Snamrock to Dallas. Tenacity like thet bas helped the two firms' annual billings to grow to around \$50m a year, and that is e conserva-tive estimate.

The two big firms bave also spread themselves to other parts of the country. Predictebly Columbus, Ohio's capital, has become an important locahas become an important location and at least four other Cleveland firms bave operations there. Washington D.C., too, attracts plenty of lawyers, but Squire Sanders, with 307 lawyers on its staff, has also expanded to New York, to pick up business on the financial merkets, and to Phoenix, Arizona—one Squire Sanders lawyer was forced to move there when doctors told his wife to when doctors told his wife to move for bealth reasons." After

move for bealth reasons. "After be was down there for a while he began to realise there was quite a market," says Mr Meisel.

An equelly fortuitous event—one of the firm's lawyers in Washington married the Belgian Ambassador to the U.S.—led to the opening of an office in Brussels, where the company bas since done work for Société since done work for Société Générale and bas just appointed a lawyer to look for opportunities within the European Com-

Some 10 per cent to 15 per cent of total Squire Sanders hillings now come from ahroad, Mr Meisel says, though not all from the Brussels operation. He does feel, however, that the pre-sence of the five partners in the Belgian capital offers a unique opportunity to potential European clients, especially those interested in doing business in the U.S.

"We don't represent our-selves as Belgian or European lawyers," he says. "We ere an American law firm with e Belgian office." That position might not have been intentional at the start but a newly discovered advantage to Squire Sanders, he believes, is that while a number of the big New York law firms have European offices, they bave little experience outside New York, and, perhaps, Wash-

# Diversity helps to ride recession

## Manufacturing Industry

PETER BRUCE

CLEVELAND HAS always been one of the powerbouses of manufacturing industry in the U.S. Its position on Lake Erie has placed it at the centre of the iron ore routes from northern Minnesota to the steel industry around Pittsburgh in

It straddles the freight rontes between the huge capital goods markets to the west end the consumer markets on the east consumer markets on the east coast. Probably to its lasting good fortunte, the early indus-trialists in Cleveland never could decide what industry to get into. It just seemed to be e good place in which to make things.

Some 42 per cent of Detroit's industrial employment is accounted for by the motor industry, end steel takes up to 39 per cent of the jobs going in Pittsburgh, but the biggest concentration of Industrial jobs in Cleveland, 18 per cent, is in what could loosely be called machinery. Local economists are convinced that the manufacturing diversity implied in those comparisons bas saved the city from even more damage than it has suffered during the recession. Some 42 per cent of Detroit's

Up to 65,000 manufacturing jobs are thought to bave been lost since the recession began to bite in 1979, a fall of around 25 per cent. Although there are signs of an improvement both Ford and General Motors have been recalling workers to their metropolitan Cleveland plants es demand for cars continues to grow throughout the country — Cleveland'a indus-tries have yet to benefit substantially from the national

relatively mature ereas; nonelectrical machinery, steel, tools and fabricated metals. They are all bighly susceptible to cycles and, though fundamental to any large national manufacturing economy, have only modest growth prospects.

Typically, the city and its surrounding industries have tended to produce components, not neccessarily for consumer points during the recession,"
products, but for producer says Mr James Trutko, an
goods and this has meant that economist with the Growth
the Cleveland manufacturers Association. "We should be

and precision forged gears in the United

■ Manufacture and market reinforced

plastic hoses and tubings in Belgium, and

maintain a marketing office in the United

Serve semiconductor manufacturing and

testing customers with marketing offices in

Serve microwave instruments customers

with marketing offices in France, Greece,

Italy, the Netherlands, Spain, the United

Kingdom and West Germany.

France, the United Kingdom and West

is Eaton

A European Company?

It's true that our corporate headquarters are in Cleveland, Ohio. But it's also

true that 20% of our assets and 18% of our employees are in Europe. Thus,

With 41,000 employees in 140 facilities on six continents, Eaton manu-

factures advanced technology products serving electronic and electrical,

Manufacture truck components in France,
 Manufacture and market push-puil cables

Kingdom.

we also like to think of ourselves as a European company.

and vehicle components markets. In Europe we:

Spain and the United Kingdom.

nents in Italy and Spain.

TW4 5DX, England.

Germany.

Serve truck components customers with

marketing offices in Austria, France, Greece,

Manufacture and market engine compo-

Manufacture and market automotive and

appliance controls in Italy, Monaco and West

Serve electronic and electrical customers with marketing offices in Belgium, France, Greece, Italy, the Netherlands, Spain,

Manufacture electronic and electrical

controls in Italy, Spain and the United

Sweden, the United Kingdom and West

Spain, the United Kingdom and West

traditionally find themselves latecomers to any opturn in the national production cycle and early leavers.

"The effect is cumulative,"
says e recent report by the
Cleveland State University's
Urban Centre, "Each subsequent recovery fails to regain fully the employment lost in the previous recession." The decline bas been relentless, although not always dramatic. In 1967, manufacturing industries employed 40 per cent of the work-force in the metropolitan area. There were recoveries in 1972 and 1976, but these same in-dustries now employ only 25 per cent.

The most visible losses have come from the city's major in-dustrial employers. Eaton has closed most of its manufactur-ing plants in the area, Republic Steel and Jones and Laughlin steel and Jones and Laughim still have also cut back sharply on jobs, but it is almost impos-sible to gauge the effects of the recession on the bundreds of smaller machine shops, fabrica-tors and machine tools builders that give real substance to manufacturing in Cleveland.

## Accessories

There are about 420 com-panies making mechine tools, dies, tools, jigs, fixtures or other machining accessories around the city. A quarter of them employ, at best, fewer than five people and more than two-thirds mploy fewer than 20 pople.

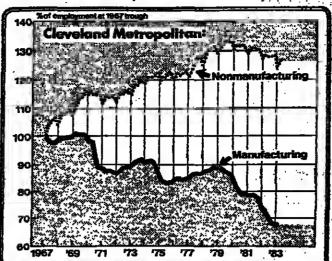
Employ rewer than 20 pople.

Local steelworkers union leader Frank Valenta says he bas counted 48 fabricating companies disappear during the recession. The Ohio Bureau of Employment Services estimates that employment in the metal-working machinery industries in material fell he metropolitan Cleveland fell be-tween 1979 and 1982 to its lowest level since the end of the

For the most part, however, the smaller machine shops have proved themselves to be very stantially from the national flexible and resilient during recovery.

The city's problem is thet most of its manufacturing industries are concentrated in hire, when demand picks up, for a most of its way, and the series in the series in the series to be very metabolic and resilient during hard times. They are not considered in hire, when demand picks up, for a most ordered in the series to be very series from a vast pool of experienced local machinists. The mediumsized fabricators and subcon-tractors face a different set of pressures, Most are locked into agreements with trade unions and survival through the recession has meant severe belt

"A lot of companies have brought down their breakeven





are going to see a great deal of according to its chief executive, modernisation during this cycle and we won't only be modernising ourselves, we'll be being land machine tool plants and other people modernise."

That bolds trees a great deal of according to its chief executive, modernise and control of the control of t

That bolds true particularly for the tyre producers around Akron. Firestone's net income improved from \$6m to \$111m last year with virtually no change in turnover. Similarly, income at B.F. Goodrich reached \$18.4m after a 1982 loss of \$32.8m, while General Tire & Rubber's net profits rose 247 per cent on sales growth of just

Cross and Trecker) where the old Warner and Swasey lathe group still form the core stance, a producer of customised - Existing manufacturers are company, breakeven point has machines, began making small being encouraged to talk, at a lathe group still form the core

much more resilient. I think we been reduced by around \$100m

trolled the group and Mr Searby expects Warner and Swasey and its associated companies to begin to turn last year's \$60m losses into profits towards the end of the year. The other major local machine tool builder, Acme Cleveland, has also cut jobs and sought to diminish its exposure to the crowded con-Some of the machinery companies bave also found the necessary financial muscle to rationalise. At Rendia Actionalise.

rationalise. At Bendix Antoma-tion, for exemple (recently sold machine tool scale, some pro-by Bendix's new parent, Allied, ducers have managed to soften the effects of the recession by diversifying. Hill Acme for in-

valves in the Seventies and has found a fucrative niche in the scuba equipment market to help smooth over the machine tool

Republic Steel has cut its Cleveland workforce to around 6,000, from nearly 10,000 three years 280, and installed modern continuous casting equipment at its integrated Cleveland works. The \$14m investment at the works, which sit just across the Chyshogs river from a similar plant belonging to Republic's new parent, LTV, must have made it one of the most attractivee plants in the merger between Republic and Jones & Laughlin Steel, the LTV steel

anbeidiary.

The two works are likely to begin loading much of the volume steels, chiefly for the motor industry, onto the Re-public plant's caster, the only facility of its kind in the area, once the merger is completed.
While the merger of Republic and J & L may have saved the two companies plants in the two companies plants in the heart of the city, Cleveland's steel industry, like that in the rest of the country, still has a lot of streamlining to do. U.S. Steel has begun to lay off people at its Cuyaboga Works in the run-up to the complete closure of the wire and strip mill and the fate of the U.S. Steel tube overations in nearby Steel tube operations in nearby Lorain also hangs in the

The steel tubes market, par-ticularly in the once lucrative off field markets, has all but disappeared in the past two

The shrinkage in iron and steel has not been confined to the intergrated steelmakers either. Founderies have also been hit. "You cannot get large castings in Cleveland any more." complained one machine tool maker. "There used to be three or four."

Cleveland's business community, galvanised by the severity of the recession into addressing the problem of the city's industrial base, has come up with a three-point action plan to stop the rot and, con-ceding that the prospect of enticing new industry to the area from outside is remote, encourage new ventures from within.

senior level, with trade unionists, in an effort to arrive at joint strategies to increase competitiveness, and to competitiveness, and to modernise manufacturing procedures. The action plan, put together by the Cleveland Tomerrow Committee, chaired by Eaton chairman, Mr E. Mandel de Windt, has also proposed setting up a local productivity centre to enable businesses to share technical avacation.

share technical expertise.

A second aspect to the action plan would involve an attempt to foster the growth of new industries, largely through creating a mix of research and venture capital resources. Finally, the plan calls for the creation of a programme to address the causes contributing to the decline of industry around the city.

## Labour costs high

The committee blames the decline of the city's manufacturing base almost entirely on high unit labour costs, e position which may make it that much more difficult for management to talk to the unions. Already there are signs in the city that even where union leadership is talking to the business community in en ettempt to arive at e consensus of sorts for future action, rank and file members are resisting calls for The committee blames the members are resisting calls for an end to restrictive practices. "It was the management that agreed to our work practices when they were only too keen to see the merchandise move out the door," says one activist. "now they want us to roll over and hand it all back."

Union leaders are not likely to put their political careers on the block for the Cleveland Tomorrow programmes if they sense that their membership is not going to take them on board and the next year could prove to be the make or break period. Without union support, the schemes designed to buoy up the basic industries will prob-

ably fall by the wayside. Mr Bill Seelbach, director of the Cleveland Tomorrow programme, believes however, that the message on costs will get through. "Labour management co-operation in the city's future le happening as it has never happened before," he says. "The smart (union) guys realise that they have got themselves into an untenable situation."

Two profiles which illustrate the contrasting fortunes of new and traditional industries. Reports by Peter Bruce

# How Tecmar plugged into IBM

CAROLINE AND MARTIN about everyone) are the kind m Cleveland's leaders and its publicists dream about. In 1981 they formed the entire staff of their company, Tecniar, now located in a new \$2m plant in one of the greenfield indus-trial areas that surround the city. Today, with sales esti-mated at more than \$40m this year, there are 490 people on the payroll.

Tecmar make computer add ons " the memory boards, disc drives, network-ing packages, video and graphics boards and some software and the company is now reckoned to be the biggest single source of peripherals and boosters to the IBM personal computer

Martin, with degrees in medicine and blemedical engineering, and Caroline, who gave up nursing to take an MBA at Case Western University in the city, began working on a device in 1974 to help diagnose lung diseases during a year at Clevland's University Hospitals.
The Pulmonary Diagnostic
Instrument (PDI) took the
Alperis five years to build and the Cleveland medical estab-lishment when they first began testing it on patients in 1979, their research was not

In building the PDI the Alperts had designed computer components, basically memory boards, not on the open market, and sales of these had taken their fledging company (Tecmar stands for "Marty's technology") into the \$50,000 a year league. The Alperts, however, had seen the IBM personal computer coming and, so the story goes, they bought the first two sold in the U.S. in October 1981.

wasted.

The couple immediately began designing peripherals for the PC, taking their two new computers apart and designing interfaces in reverse. Six weeks later, at a computer exhibition in Las.

Vegas, the Tecmar add ons. took the market by storm. Although Tecmar now does peripherals for other com-

puters, including Apple, the link with IRM has been critical and if is a close one, which probably solidified in TRM that three IBM executives had been trying to sell him new design secrets. "Our market is the world," says newly-hired chief operating officer Henry Caplan.
"Wherever the IBM PC is, so

Capian's arrival probably marks the beginning of a new phase in Tecmar's growth. It does at least coincide with the fact that the 35 per cent to 40 per cent growth in sales

40 per cent growth in sales every month for the past 30 months has begun to fall away. "The way you deal with that is to bring in guys like me," he says.

Caplan, an experienced computer industry executive and certainly older than the two Alperts, both of whom are in their early thirties, says the company had to borrow money for the first time ever recently and probably needs to go public.

"I want us to be as hig as possible," he says, "but not

possible," he says, "but not monolithic. We have no bureaucracy here and we can



Dr Martin Alpert (Marty) now has 400 on the payroll of his company, Tecr

move quickly." What the Alperts, and Caplan, clearly have in mind is expansion, either through acquisition or on their own. A head of international operations has just been appointed to Brussels and the company is looking for its exports business to grow to around 35 per cent

# Machine tool decline hits Hygrade

THERE ARE at least 150 companies, employing fewer than a new machine tool since the Warner and Swasey, and Cater and they are almost all in the black for nearly a year.

The Liptaks have not bought really had a salesman when a new machine tool since the Warner and Swasey, and Cater around the city precisely because the job shops are there and they are almost all in from a high of 18 three years graph were still out there. "If there was any trouble then then the country and there seems to be no there was any trouble then off orders that require special tooling. Quite where they fit into the fubristic visions of the fubristic visions of the country a year.

Hydrade run by Joseph Lip.

"We've lost money every Locked in

are able to supply the city's machine tool or component producers with one off pieces of machined metal simply too time consuming to be done in house. But in the space of three years or so the Liptak family

virtually disappear. Chiefly, it was the purchase on work at short notice. Chiefly, It was the purchase of Warner and Swasey, the lathe makers, by Bendix, and the closure of Caterpillar's lift truck plants in the area that accounted for most of the customer losses, "About half our business then," says Joel.

On work at short notice, "mucking about with things that are foreign to you, that you "Eygrade had to move out of the city et the beginning of the year, after their lease can come so fast. What do you "Conservatism of that sort is expired. The move to a suburb do?"

Get out and look for new small machine shops until now, business? Hygrade haver Several large manufacturing to purchase out of the city et the beginning of the year, after their lease expired. The move to a suburb do?"

Get out and look for new small machine shops until now, business? Hygrade never Several large manufacturing to persuade them.

have seen their customer base

It would be suicide for the Liptaks to turn down even loss-

Hygrade, run by Joseph Liptak, 70, and his sons Joel, 40 and Leonard, 34, has been making jigs and fixtures in Cleveland since 1946. Joel says his father has never seen business so had. "He's never had to lay people off before," he says, "and that really burt him."

Until three years ago, says Joel, business was like water running from a tap. "Then it on even though they lose in twice as high as the winning in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything in twice as high as the winning in twice of anything the twice of anything in twice as high as the winning in twice of anything in twice as high as the winning the we wouldn't have quoted him.

Cleveland's planners is anybody squess but the Liptaks are advisibled into the summer holds ont." It was the first the Liptaks are anybody squest with a liptak anything to each summer holds ont." It was the into the summer holds ont." It was the twin twice in the liptaks are anything the district the Liptaks are anything in the seems, too, that Hygrade in the summer holds ont." It was the winning to anything in twice anything in the we'ry to do anything in the way. This is in itself a sign of the summer holds ont." It was the winning the way to do anything in the we'ry to do anything in the way. This is in itself a sign of the summer holds ont." It was the winning to anything in the way to do anything in the way. This is in itself a sign of t we wouldn't have quoted him . on that It makes us look bad."

It would be shience for the Liptals to turn down even loss making work. Down at the Jessph Liptals, apparently customers to have once worked process, they depend heavily on has often warned his sons about relationships with a select band getting into volume production ings being planned along the of customers and the strength of any kind. "He's told us to chyahoga river and the pobitical on work at short notice." You're going to start mucking about with things that muck seem an age away.

Hyurade had to move out of

Hygrade never Several large manufacturing to persuade them to stay.

from day to day."

For a little company deemed

EAT-N

For further information about our products and services, please contact our European headquarters and request a copy of our Worldwide Product Guide. Eaton Ltd., Eaton House, Staines Road, Hounslow, Middlesex,

# 1981 Top performer over I year Top performer over 2 years Now-top performer over 3 years with total sterling return up 131.8%\*

Guinness Mahon International Fund Limited, the first Channel Islands managed currency fund to be launched (in May 1980), has maintained its outstanding performance record by achieving the highest total return of any comparable fund over the past 3 years.†

Skilled Management

Guinness Mahon International Fund Limited is managed by Guinness Mahon Fund Managers (Guernsey) Limited. Guinness Mahon is a leading London merchant bank and member of the Accepting Houses Committee with considerable experience in the international management of currencies.

Cultinges Mahon Bund Managers Covernee on Linning Rock for Indiana of the Continues of the TOS. HILLES AND THE RESERVANCE OF THE PROSPERIES AND A PROPER SERVENCE OF THE PROSPERIES AND A PROPER OF THE PROSPERIES AND A PROPERTY OF THE PROPERT For a copy of the Prospectus of Guinness Mahon International Fund Limited (on the sole basis of which investment can be made) please send in the coupon below or ring Graham Bufton on Guernsey (0481) 23506.

**Low Charges** 

Fees for the managed fund: 21/2% initial charge and an annual management fee of 1/2%. There are no initial charges for the five currency funds, only an annual management fee of 3/4%.

**Our Individual Currency Deposit Funds** 

Five currency funds, which form part of Guinness Mahon International Fund Limited, are available for investors to earn wholesale market rates of interest on liquid funds. There is a choice of five currencies: US dollars, sterling, yen, deutschemarks and Swiss francs.

This advertisement has been placed by Guinness Mahon & Co. Limited an exempted dealer.

Analogia Archau Animala Animal

BMC Cook Berning Belling Belli

であるとであり、 1900年の1914年の1917年の1918年の1 

# YORK STOCK EXCHANGE COMPOSITE CLOSING PRI

Closing prices April 6 Free 12 Month 12 Mont Bir, Tel. E 1998
ph 81 14. 28
29 5 152
19 244
14 4 19 40
16 9 97 7 1135
20 10 7 273
40 23 365
59 37 14 24
20 3 365
59 37 14 24
20 3 365
10 12 13 17
1.59 12 17
1.59 20 13 215
13 13 12 17
1.59 26 18 15 26
10 13 5 5 5 26
10 13 5 5 5 26
10 13 5 5 5 26
10 13 5 5 5 26
10 13 5 5 5 26
10 13 5 5 5 26
10 13 5 5 5 26
10 13 5 5 5 26
10 13 5 5 5 26
10 13 5 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 26
10 13 5 3 5 2 Handeller Antonia to the state of the state Mehre Medica Med 们的原则是一种的一种,这种的一种,是一种的一种, ingriec indicate in ingriec indicate in ingriec ingrie 们的教育世界新聞作用的祖母也是如果的名式是《苏红·梅·斯森斯·拉德·西约斯斯·斯勒 Fleet
Fleet 11次為五級與八九四次名為11次以中國人工10名級の23 八份者的 多年的 经保证股份的 经经验的 不知识的的 人名英格兰 的现在分词 Contilion Contil 你們我們們可以可以可以可以以以及我們不可以我們我們就有我們可以可以就可 2 76 7 340
pMS0 13 210
pMS0 13 210
pS0 13 10 182
a 4 12 10 183
a 4 17 10 1132
a 18 18 126
a 18 18 126
a 18 18 126
a 18 18 18 18
a 18 18
a 18 18 18
a 18 的现在分词 医克勒氏试验 医克勒氏学的 计多价系统 医门口络 医电影中心 医计算人 医多种 有 医医疗性 经工作的 医克勒氏试验 BenfCp
Benef
BengE
BengE
Berkey
BeshSti
BenkSti
BenkSt र्जातिक स्थापन क्षेत्र के प्रतिकार का जातिक प्रतिक क्षेत्र क्षेत्र के जातिक क्षेत्र का जातिक क्षेत्र का जातिक क 2365.8442.4245.4366.4364.4345.4345.4266.4264.6343.64545.3594.423.3563.4553.5444.446 有名称"如果是我看到我们的人也没有,我们有名的,我们也是我们是这些我们的我们是这种,也是我的人们是我们是我们是我们是我们的人,我们是我们们们也是我们们们 根型以外数例以可引收据的了10mm 表 5 分型位置的设备设备设施设施。 G-G-G 想有不是我们,我们是我们的我们的我们的是我们的,我们也就们的我们的,我们的我们的我们的我们的,我们的我们的,我们的我们的,我们就会说到这种的人,我们们也是这种的人,我们也是我们也是这种的人,我们也是这种的人,我们也是这种的人,我们也是这种的人,我们也是这种人,我们也是我们也是这种的,我们也是这种人,我们也是我们也是这种人,我们也是这种人,我们也是我们也是这种人,我们也是我们也是我们也是这种人,我们也是我们也是我们也是我们也是这种人,我们也是我们也是我们也是我们也是我们也是这 他就是是我们的我们是我还是我的感觉的我们就有我们的人,我们是我们的人的,我们是我们是一个,我们是我们的人,我们就是一个一个,我们也是我们的人,我们们是我们的人, 1995年,我们们就是我们的人,我们们是我们的,我们们是我们的人,我们们是我们的人,我们们也是我们的人,我们就是一个一个人的人,我们们也是我们的人,我们们们们是 7 120 42 21 311 27 27 31 120 42 21 120 42 21 120 42 21 120 42 21 120 42 21 120 42 21 120 42 21 120 42 21 120 42 12 0-0-0 DMG Demonstrated D 1041 91420 914 不是我们不是我们的自然的感染,我们的不是我们的一个,我们的一个,我们们的一个,我们们的一个,我们们的自己的,我们们也可以是一个,我们们的一个,我们们的一个,我们的 在17分十八年代的人生,在各种人工,在各种人工,是一种人工,是一种人工,是一种人工,是一种人工,是一种人工,是一个人工,是一个人工,是一种人工,是一种人工,是一种人工,是一种人工,是一种人工,是一种人工,是一种人工,是一种人工,是一种人工,是一种人工作,是一种工作,是一种工作,是一种工作,也可以是 4 4 25 4 27 2 2 2 7 2 2 2 7 2 2 2 7 2 2 2 7 2 2 2 7 2 2 2 7 2 2 2 7 2 2 7 2 2 7 2 302 274 192 101 213 280 457 134 251 6 53 14 22 22 22 - ¼ - ¼ CBLS XA CF FOR STATE OF STATE WELLESSEN TO LANGUAGE SERVICE SERVICES OF THE · 果果就是了有情格的可能够了你也是到很多的的人,我们是是这种人的,我们就会多数的人,我们就会 KOU ICLAY C. Keneri Kalenda Ka 多6万万多名的人,我们是我们的人的人,他们也是一种的人的人,他们也是一个人的人的人,也是一种的人的人,也是一种的人的人的,他们也是一个人的人的人,也是一种的人的人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人的人,也是一种人们也是一种人,也是一种人们是一种人们也是一种人们也是一种人们也是一种人们也是一种人们也是一种人们也是 RAFCO NED SER SECOND SER SECOND SER SECOND SER SECOND SER SECOND SER SECOND SEC LINIO LIFE LLACON LIFE LLACON LIFE LLACON LIFE LLACON LLAC 30 30 30 S 4 380 2 101 24 3 65 15 27 | March | 122 15 5 2500 | 125 15 129 | No. 124 | 124 | 124 | 125 | 125 | No. 124 | 126 | 127 | No. 124 | No. 1 LENGTH OF THE PROPERTY OF THE 2 313
WM 60 9 50
1.32 47 13 4
19 18 26 11 179
1.32 18 21 17
48 26 11 179
1.30 9 1850
pd 30 7 108
24 12 25 23
556 20 15
440 33 7 16
28 21 14 256
W1 14 256
W1 13 37 16
28 21 14 256
W1 15 251
10 15 251
10 15 251
10 17 15 1251
10 17 15 1251
10 17 17 10 15
10 17 10 15
10 17 10 15
10 17 10 15
10 17 10 15
10 17 10 15
10 17 10 15
10 17 10 15
10 17 10 15
10 17 10 15
10 17 10 15
10 17 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 15
10 10 10 10 15
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 10
10 10 10 10 10 HAN 142 3473

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 12 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70

1.00 43 16 70 Haller Ha 9441414565266145642145642545564544254544259527357235226684545147525622568454456 

Closing prices April 6

12	C-C-C  19 08 201, 17 7 35 12 1111, 1711, 1	92 92 92 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.   1.   1.   1.   1.   1.   1.   1.
NEW Y	ORK STOCK EXCHAN	IGE COMPOSITE	CLOSING PRICES
12 Month High Low Stock Die, YM. E 1995 High Low Clause Park Country would from Parents 20 water  Country would from Parents 20 water  20 184 PSE	P/ Ste   Close Press   12 Month   Div. YM. E 100s High   Low   Stack   Div. YM. E 100s High   Low   Stack   Div. YM. E 100s High   Low   Stack   Div. YM. E 100s High   Low   P277   25   7   165   269   269   249   245   265   Stack   Div. YM. E 100s High   Low   Div. YM. E 100s High   Div. YM. E 100s Hi	Chige Close Press.  Dicase Press.  12 Mounts  Dicase Press.  14 Use + Island: Other Stock Biv. YM. 6 100s High Law Devote Close  1 4 Use + Island: Other Stock Biv. YM. 6 100s High Law Devote Close  1 4 Use + Island: Other Stock Biv. YM. 6 100s High Law Devote Close  1 4 Use + Island: Other Stock Biv. YM. 6 100s High Law Devote Close  1 4 Use + Island: Other Stock Biv. YM. 6 100s High Law Biv. 350. 350. 4 Liv.	Ch'ge  Ch
1.	1		211
00 904 Pog pril 50 13. 2300 924 92 83 -1 38 224 RCCo   172 185 PorG pril 50 14. 13 184 184 185 -1 56 54 405 Royfo   173 185 PorG pril 40 15. 50 294 295 295 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	. 08 9 34 1421 139; 127; 19	94) 177, 43, 1ranson 14 101 97, 95, 93, -1;	28 16% Vormed 28 9 27% 27% 1 such parameter was admitted on a walcounter with management was a walcounter with the control of a walc

ii to ii

	WOKED STOR		AUSTRIA	NORWAY	HONG KONG	
OVER-THE-COUNTER	Nasdaq national market, closing prices April 6	CANADA	1983/64 April 6 Price %	1983/84 April 6 Price High Low Broser	1983/84 April 6 Price	
Stock Soles High Low Last Clarg   Slock Sales High Low Last Clarg   Slock   Sales High Low Last Clarg   Slock   Sales High Low Last Clarg   Slock   Sales High Low Last Clarg   Slock   Sales High Low Last Clarg   Slock   Sales   Sa	Solves   High Low Last Clong	150 April Pres \$25 25 25 1	222   306   Gredit statt Pfd   815   570   181   Goesser   325   417   358   Interruptall   407   221   201   Leenderbank   914   407   407   407   400   355   Perimoser   347   407	167   101.95ergans Sett   107.5   1240   53   30ergastra   517.5   182.5   112.5   Christiania Sk.   128   117   Den Norsk Credit   167   515   109   57.5   Ethem   167   617   109   100   1	85.25 15.5 Sank East Asie 24.8 10.9 5.7. Etherung Kong 9.55 17.0 9.5 Color Light 12.7 3.30 1.9 Hang Long Devel. 2.7 54.7 86.9 Hang Long Bank. 39 4.70 2.47 HK Kowleen Wh. 4.2 6.00 2.25 HK Land 3.6 9.7 3.4 HK Shanghai BK. 9.2 48 38.5 HK Telephone 42.5	
Adeptis 220 6 5 5 6 + 1. CrapPd 1032 145 14 141 141 Adeptis 1104 94 18 104 14 141 141 141 141 141 141 141 141	13 34 34 34 34 14 4 4 14 15 15 15 15 15 15 15 15 15 15 15 15 15	728 Algoria St. 536, 265, 265, - 1, 600 Andra WA f. 5281, 231, 221, - 1, 3000 Angus C pr. 581, 29, 92, 92, 4462 Augus C pr. 581, 61, 61, 61, 61, 61, 61, 61, 61, 61, 6	### April 3 Price   Frs.   Frs	1963/64 April 5 Price- Higb Low April 5 Aust. 3 5,64 3,02 ANZ Group 5,06	18.9 8.00 Hutchison Wps 17.4 16.1 7.2 Sartine Hath 10.8 4.08 2.00 New World Dev. 5.5 8.0 2.22 Orient O bees 267 8.1 8.6 10 sass Trust Nt. 3.4 8.5 17.2 Swire Pac A 18.8 2.28 Wheel's Mard A 3.65 2.40 1.55 Wheel's Mard A 3.65 2.40 1.55 Wheel's Mard A 3.65 2.50 Werld int. Hidgs. 2.50	
Attest 483 111, 103, 111 -3 ConPap 2220 578 556, 542 562 4-5; PCD/Fn America 40 405 254, 23 2574 4 Consul 109 172 12 1274 -4; PCD/Fn AWAIN 853 81, 549, -34 Confur 5 4 7 7 7 4 PDINIP ABOUT 500 120 131, 131, 135, 135, +14 Column 72 83, 64, 65, 112 13 -14 PDINIP ABOUT 500 120 131, 131, 135, 135, +14 Column 72 83, 64, 65, 112 13 -14 PDINIP ABOUT 500 120 131, 131, 131, 131, 131, 131, 131, 131	39 64 62 56, 351, 354, 44, 41, 11, 11, 11, 11, 11, 11, 11, 1	102 STREET STILL 115, 115, -1, 2, 400 SCFP S111, 115, 115, -1, 2, 10355 BC Res 375 385 375 +15 5, 530 Bruneret S211, 21 21 -1, 3, 300 Budd Can S121, 121, 121, -1, 3, 410 CAE S16, 184, 182, -1, 3, 400 CAE S111, 111, 113, -1, 3, 2, 2, 3, 400 CAE S111, 111, 113, -1, 3, 2, 3, 400 CAE S111, 111, 113, -1, 3, 2, 3, 400 CAE S111, 111, 113, -1, 3, 2, 3, 400 CAE S111, 111, 113, -1, 3, 2, 3, 400 CAE S111, 111, 113, -1, 3, 2, 3, 400 CAE S111, 111, 113, -1, 3, 2, 3, 400 CAE S111, 111, 113, -1, 3, 2, 3, 400 CAE S111, 111, 113, -1, 3, 2, 3, 400 CAE S111, 111, 113, -1, 3, 2, 400 CAE S111, 111, 111, 113, -1, 3, 2, 400 CAE S111, 111, 111, 113, -1, 3, 2, 400 CAE S111, 111, 111, 113, -1, 3, 400 CAE S111, 111, 111, 111, 111, 111, 111, 11	,550 3,560 Delheize 4,990 ,505 1,875 EEEE 2,8,605 ,590 4,460 Electrobel 5,500 ,000 1,910 Fabrique Nat 2,115 ,593 8,710 03 inno 584 3,250	5.08 1.93 Strettle Copper 2.65 5.55 2.90 Srambles Inda 2.5 5.50 2.87 Bridge Of	1985;84 April 7 Price Yes	
Abril 8 20e 107 114 114 114 4 Cords 5 282 154 154 164 44 FAMS 57 574 Cords 5 1.80 151 1304 304 4 FAMS 57 574 Cords 5 1.80 151 13 304 304 4 FAMS 5 1 154 154 154 154 154 154 154 154 154	Se 144 92 84 94 + 112 herrory 201 84 55 54 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300 C Peckes   \$27 87 87 87 87 87 87 87 87 87 87 87 87 87	1,450   28L (Brud)	4.15 1.99 Cartton & Utd. 4 5.65 5.65 1.65 Costs (C.1. 5.65 5.65 1.65 Comatoo "A" 6.00 1.25 0.13 Countin Aust. 1.18 1.75 0.95 Countin Aust. 1.18 1.75 0.95 Countin Aust. 1.57	1.170 606 Altromoto	
Angelia .18 7 92 92 92 14 10 00 00 00 00 00 00 00 00 00 00 00 00	1027 224 34 42 -4 16 68 54 94 95, +1 24 52 55 54 +1 141 225 272 254 -1 173 5 55 5 5 -4 180 519 519 519 519 519 519 519 519 519 519	30452 Convents 4 405 400 405 + 5 100 Convent A 5109 107 107 + 1 10 100 Convent A 500 265 390 + 5 1780 Convent A 5122 132 139 + 1 1225 Crownz 3151 134 134 - 7 18200 Cour Res 184 776 776 - 4 1 12400 Door Door 142 142 142	1983/84 April 5 Price Knr. % 556,4 320 Aarhus Otis 288 549 549 549 549 549 549 549 549 549 549	2.50 1.55 Gen Prop Trust. 1.96 4.15 3.00 Hardle (1)	1,150 702 Dai Nippon Ptg   1,040 600 422 Baiwa House   485, 256 617 Stera   351 1,560 10,560,385 Fanto   2,400 1,150 496 Full Bank   2,070 2,460 1,490 Full Film   2,050 1,260 752 Faifsawa   810 1,390 750 Fullter   1,510	
Audit a .12 20 12° 12° 12° 12° 12° 12° 12° 12° 12° 12°	G-G  St 19 8 9 - 1  12 101, 101, 101, 101, 114  467 371, 37 37 3- 2  St 20 51,	3200 Dylat A \$21\2 21\2 21\2 21\2 = \4 1	550 178,6(CopHendetsbank 215 855 296,6), Sukkeyfab. 635 825 190 Denske Senk. 2190 916 88,6 East Aslatic	2,35	2,040 1,460 dream Gross 1,960 820 350 Hasegawa 400 400 695 555 Heiwa Real Ext. 431 984 1,970 1,400 Effatch Gredit 1,610 1,150 785 Horoda 1,080 999 770 House foot 782 2,580 757 Hoya 548 276 (ith 60 55 2,500 1,980 995 Jwsbul 1,940 410 355 AGCS 351 3,450 2,500 1,950	
Author 208 129: 114: 129: +15   Description 1608 54 54 54 - 4   Gridlet 1   Author 208 129: 114: 114: -12   Decord 185 11 109: 104: 104: 104: 104: 104: 104: 104: 104	220 St. 272 St. 124 132 132 132 132 132 132 132 132 132 132	3342 Pionbriga	5.435 1.235 Novo ind. 2.220 572 183.4Privatbanken 535 570 167.3Provinsbanken 286 524.6 170 Smidth (F.) 249 1.355 586 Sophus Berand 1,126 588 97.2 Superfos 506	8.75 4.02 Eartos 7.08 4.85 2.85 Smith (H.) 3.8 0.45 0.18 Scotthland Mer's 0.45 0.76 0.20 Scarges Expl 0.89 2.50 1.40 Thos Retwide 1.88 5.26 2.40 Tooth 5.2 5.80 1.55 UMAL Cors 3.6 5.80 3.05 Verson 5.6 5.11 3.50 Western Mining 4.28	3.430 906 webst 1,840 410 396 AGCS 891 3,450 2,850 AL 3,515 873 520 4300 830 372 266 Kelline 303 884 525 Keo Seap 310 750 560 Keshiyuna 540 626 382 Kiria 510 1,180 755 Keltine 1,050 610 460 Keshiyuna 483 765 561 Kenishiraki 483 765 561 Kenishiraki 660 347 295 Kubota 526	
BRCom 22 15 14½ 14½ -1   DomBs 1 08 35 21½ 21½ 21½ 14¼ -1   Gould P £ Bracorio 1 104 64 92 8½ -1 4   DoyDB 88 79 174 17 17 -1 4   Bracorio 1 50 31½ 30½ 31   Dresdr 28 14½ 14½ 14½ 14½ 14½ 18   Bracorio 1 50 31½ 21½ 21½ 21½ 12 11½ 14 180 180 180 180 180 180 180 180 180 180	70 18 177; 174; +4;   Conclusion 08 1013 214; 237; 21 -114; 44 54; 85; 64; -14 2228 95; 85; 94; -4; 47 104; 10 18	1600 Goodyair   5851 345, 551 + 12	1983/84 April 6 Price High Low Frs. 2,273 1,836 Emprunt 4% 1978 1,864 1,005 8,185 Emprunt 7% 1978 9,528 3,625 8,009/0NE 3% 5,445 578 593 Air Liquide 547	1.65 0.65 Woodside Petrol 1.05 2.8 1.50 Woodworths 2.82 3.07 1TALY  1983/84 April 8 Price Lire	500 575 (Immegai 486 11,060 4,100 (Kyoto Gerainle 6,400 1568 480 Maeda Const. 590 1,860 890 Mattino Milling 1,400 1,860 766 Mattino Milling 1,400 439 760 Mattin 1,060 439 860 Marubani 415 700 540 Marubani 500 1,460 880 Marubani 1,220 1,480 880 Marubani 1,220	
BastW s 44 37   16% 16% 16% 16% 14%	7/12 244 234 237 25 25 25 25 25 25 25 25 25 25 25 25 25	1890   Indef	859 360 BIC 438 826 826 820 820 820 820 820 820 820 820 820 820	39,500 25,600 Banea Com 3s 34,250 355 124,4 Sestogi RRS 155 155 2,590 1,040 Centrale 1,895 5,449 4,470 1,855 Fizi 3,255 F	7360; 6.15 ** tarties Works 736	
ComAm 347 53; 54 55; 54 154 154 14 14 14 14 157 154 154 154 154 154 154 154 154 154 154	50	520 LOrd Carm \$57g \$1g \$1g \$1g \$1g \$1g \$1g \$1g \$1g \$1g \$1	917 605 Darty 893 893 946 650 Dumez 8.A. 715 715 996 844 Equx (Cie Gon.) 642 840 119 Ett. Aquitaine 740 889 Gen.Occidentale 378 90.7 47.8 i.M.E.T.A.i 78.6 347 845 Latarge-Coppes 347 420 994 L'Orest 2,310 1,880 870 295 Matera Phenix 395 80.00 Matera 8.A. 1,425	5,315 2,316 Prent to. 2,066 1,859 1,173 Prent to. 580 1,699 671 Sniz BPD 1,806 14,600 9,970 Toro Assic 12,560 11,310 6,960 do Pref 5,660	1.810 · 1.40 Hippon Berso	
AMERICAN STOCK EXCHAN	GE CLOSING PRICES	49301 Nerends \$222 22 22 22 22 1 2 2 2 2 2 2 2 2 2 2	084 705 Michelin B	1983/84 April 6 Price   Price	16,500 4,040 NTV 14,800 348 348 348 348 348 348 348 348 348 348	
12 Month   P/ Six   Cless   Prov.   12 Month   High   Low   Stock   Div. YM.   E   100x   High   Low   Duoto   Duoto   Duoto   Costs   High   Low   Stock   Div. YM.   E   100x   High   Stock   Div. YM.   E   100x   High   Stock   Div. YM.   E   100x   High   Low   Stock   Div. YM.   E   100x   High   Low   Div. YM.   E   1	Class   Print,   12   Month     Low   Stock   Dist, Yhl.	Seed Ontondod	102   102   104   105	123.6 34.84.20	## 256   009/formers   976   9	
37½ 33½ 50½0 pr4.85 19. 24 35 34½ 34% 4 27½ 52 50pCr 5.1 8.11 18 1 18 2 22 50pCr 5.1 8 22 50pCr 5.1 8 11 18 2 22 50pCr 5.1 8 22 50pCr 5.1 8 22 50pCr 5.1 8 11 18 2 22 50pCr 5.1 8 22 50pC	184 185 - 4 124 7 Unity n.94t 12 11 49 8 75 75 - 4 15 115 115 115 115 115 115 115 115 11	4100 Reprock ! \$1002 1834 1004 1 1,568 12 Redpath \$2512 241, 241, 1, 1,568 12 Red Sawths A \$120, 120, 120, 1, 1,568 100 Redpath A \$120, 120, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	280 560 3kis Rossignot 1,530 568 812 17elemech Elect. 1,582 558 142.1 Thomson (CSF) 208,0 289	176.3 125.2 Glat. Brocades 141. 149 51.0 Heineken 48.9 29.2 11.0 Hurrbr Douglas 48.9 29.2 17.7 Int. Hurrbr Douglas 26.1 44.8 17.7 Int. Hueller 59.6 24.8 Haarden 59.6 40 24.5 Ned Cred Eank 40 192. 96 Ned Gled Bank 160. 150 96 Ned Gled Bank 160.	10,800 4 790iseen Elever. 8,710 1,470 1,080ishari 1,230 1,230 436ishimadzu 595 1,180 910ishimadzu 1,090 3,080isery 3,630 834 420ishimadzu 595 1,000 476ishom Elect. 927 682 2116'bomo Marine 510 176 1446'stomo Marine 166	
417, 30 Scope 30 1.0 8 9 30 30 30 30 30 30 30 30 30 30 30 30 30	21\(\begin{array}{cccccccccccccccccccccccccccccccccccc	18379 Shoft Can	1983/4 April 5 Price Dm 109.8 29 AEG-Tele7	956.5 168.5 Oce Grinten 938.6 34.5 18.40mmeren (Van) 30 62.9 48.3 15.2 7.7 Philips 48.3 3.9 Rijn-Schekle 5.7 360.2 944.0 Robero 153.8 236.8 296.8 Revience 153.8 236.8 296.8 Revience 153.8 236.8 296.8 Revience 202.5 165 92.3 Royal Dutoh 152.4 189.0 Uniterer 253.9	258 212 Taisel Corp 258 258 212 Taisel Corp 259 259 259 259 259 259 259 259 259 259	
117, 64, Servetr 80; 11. 6 2 177, 775, 715, -1, 275, 275, 275, 275, 275, 275, 275, 275	145	400 Tem o \$189, 161, 181, -1, 5 225 Teck Cor A \$111, 111, 111, + 1, 4 5366 Teck B ! \$101, 102, 103, -1, 2 5660 Teck Cor A \$38, 36 36 36 37 1000 Text Cor B \$38, 381, 382, -1, 1 1005 Tor Dm 8k \$145, 142, 143, + 1, 7 11900 Traders A ! \$172, 172, 172, 172, 1 1376 Tran Mt \$72, 72, 72, 12	7.15.55 775.8(Dalmier-Benz	120. 50 VMF Stork. 96 169.5 60.2VNU 18.12 140.6 65.5West Utr Bank. 21.6 5WEDEN 1993/84 April 5 Price High Low Kroner	1,400 sec Tokyo Elect.Per. 1,290 : 1871 117 Tokyo Gas 171   520	
133, 94, 30m(Dap 70e 11. 20 10 10 10 -1, 27, 12, Teaces 13, 175 131, 54, 6 SCEd pf1 02 13. 16 84, 94, 84, 25 15 Teacr wt 4 18	153,   158,   -14   153,   603,   154,   1	1000   Trinity Res   124, 74, 74, 74, 74, 74, 74, 74, 74, 74, 7	199.0   259.3Doutsche Bank.   274.5     197   135.5Drasdner Bank.   178.5     178   128.2 GHH.   148.     179   128.2 GHH.   148.     180   190.5   100.5     180   190.5   100.5     180   190.5   100.5     180   190.5   100.5     180   180.5     180	418 980 AGA 585 566 139 Afra-Laval 296 480 202 ASEA (Free) 570 9,400 580 Astra 540 142 90 Attas Copeo 137 492 266 Bolidan 453 715 520 Cardo (Free) 486 991 115 Electrous 527 474 523 Ericasos 570	780 660 Wacosi 766 1,970 1,130/vemanosoli 1,560 801 515 Amazaki 760 415 320 Yasuda Fire 356 516 406 Yokogawa Bige 440	
10 52 SCEd pf103 12 24 54 58 59 59 + 14 57 596 65 Therein 180 28 15 68 57 177, 8 SCEd pf103 12 24 65 85 95 + 14 525, 65 85 177, 8 SCEd pf1.9 13. 4 99, 99, 99, 99, 99, 120, 120, 120, 120, 120, 120, 120, 120	1 1 27 54 55 54 -4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ES Westor \$694, 694, 694, 694, 694, 694, 694, 694,	70 33.3 Klocokner. 66 81 303.5 Linde 875 118 303.5 Linde 875 170.5 81.1 Lufthansa 133 177 19.5 MAN 1146 177 123 Mannemann 141 145 358 Mercedes Hdd 493.5 160 160 Metaligasel 839.5 199 200 Musech Rueck 1,060	489 150 Mo Och Domajo. 478 5 480 196 Pharmecia. 271 192 kash Scanie 599 455 180 kandrik 420 780 506 Skandrik 341 375 912 kksu Enskilda 346 217 1142KF 216 791 550 St. Kopperberge 790 244 1113 ven Hendelsbn. 205 305 156 Swedish Match. 274 529 270 Volvo 6 (Free). 490	1965/84 April 5 Price Rand 6.25 2.25 Abercore 2.25 10.90 7.00 AE a Cl. 22 51 22 Anglo Am Cost 25.25 20.00 17.5 Anglo Am Cost 25.26	
592 32 SpeedOP	184 134 -4 244 185 Winth 12.18 11. 24 283 185 295 4 4 10. 104. 104. 285 28 Wester 12. 220 37 381 384 -1 12. 25 38. 384 -1 11. 11. 11. 24 285 28. 38. 11. 11. 11. 24 285 284 285 285 285 285 285 285 285 285 285 285	600 Cd. \$229, 29 23 11 12 12 16 11 Dorelha Sile. \$129, 112, 12 12 12 12 12 12 12 12 12 12 12 12 12	94.5 85 Thyseen 81.6 94.5 165 Varta 171 86.9 157 Vobe 170.5 48.4 116.5 V.E.W 191.5 36 282 Verein West 305 37 140.6 Volkswagen 210.7	SINGAPORE  1908-84 April 6 Price	183.50 110 Angio Am. Gold. 160 23.5 14.1 Barloys Bank. 21 14.95 11.1 Barlow Raind. 14.1 28.5 46 Buffels. 77 2.50 5.25 CONA Gallo. 27 2.5 5.4 5.00 Corris Finance. 15.5 11.7 8.40 De Seris. 15. 48.75 61.0 Driefontain. 47.26 70 37.26 FF Geduid. 52.5 34.4 20.0 Cold Fields 2.4 27.75 6.55 4.4 20.0 Cold Fields 2.4 27.75	
	NEDOV DEVIEW			5.14 1.56 Sourband Hidgs 2.7 4.15 Cold Storage 1.5 15 1.35 5.90 Frashr & Heave 5.15 5.90 5.90 Hew Par. Bros. 2.54 5.10 3.06 Mainy Sensing 10.3 6.15 Mainy Sensing 10.3 6.95 5.65 OUB 10.6 10.6 5.95 5.65 OUB 10.6 5.95 5.65 OUB 10.6 5.95 5.65 OUB 10.6 5.95 5.95 5.65 OUB 10.6 5.95 5.95 5.95 5.95 5.95 5.95 5.95 5.	17.5 10.2 Hedbank 16 29 15 OK Barbars 12.8 28.50 14.9 Protoc Hidgs 2.4 28.50 14.9 Rembrandt 25.5 16.5 5.65 Henries 14.5 16.0 3.75 Rust Plat 16.5 16.0 3.75 Rust Plat 7.85 26.50 18.2 Scribt C.O.L. 25.75 26.50 18.2 Scribt C.O.L. 25.75 13.00 8.2 Tongent Huistin 11.8 15.50 5.90 5.95 Unised 6.5	
	NERGY REVIEW lesday in the Financia	l Times	•	1985/64	PAIN  1982/64 April 6 Price	
				2,475 1,605Clos-Gelgy 2,265 1,975 1,390 do (Part Gerba) 1,730 2,385 1,915 Credit Sulese 2,290 2,940 2,895 Elektrowatt 2,696 748 501Fischer (Bao) 6,890	1984   1985	
	ONAL GUIDE TO THE Friday in the Financial Time			1,510 9800 andls & Gyr	115.7 89 Petroleos 115.5 80.5	

# هكذا من النصل

# WORLD STOCK MARKETS

# **OVER-THE-COUNTER**

Nasdaq national market, closing prices April 6

Seles High Low Lest Chang (Hods)	Stock Sales High Low Last Chop	) Stock Sales H	ight Low Last	Change of security	- Sales High	law Last Cling
Continued from Page 32	(Notal)	(Hnds)		Stock	Sales High (Hods)	1 (100 Cast Cast )
Loritor 43 257, 244, 25 Lorous 627 251, 251, 251, Lyndon 31 252, 252, 252, Lyndon 34 172, 177, 177, 177, 177, 177, 177, 177,	Monor B 994 82 82 83	OCG Te 883 67 4 Calcilit s 67 4 Dolumer 125 6 Ocilis 2 1 Odedos 1 1	0 52 84 -0 54 54 54 54 54 54 64 74 75 64 74 74	Playti a Porex PosiSi Poweli Poweli PosiCi PrecCat Prizer	60 223, 145 23 1 30 55, 27 32, 24 15 13 7, .12 8 233, 351 7,	224, 224, 55, 55, 55, 35, 35, 11 15, 17 7, 239, 239, 7 74,
Milw 11 54, 65, 67, -1, 11 55, 45, 45, 45, 45, 45, 45, 45, 45, 45,	Morris Di 13 134 125 134 + 14 Morris Die 34 56 59 95 95 Morris Alb 379 144 145 14 145 Morally 40 12 15 134 145 + 15 Morris 20 12 15 134 145 + 15 Morris 20 32 344 344 4 Morris 80 32 344 344 4 Morris 80 32 344 344 4	OhioCit 2.58 702 4 Okiditing 90 428 3 Okiditing Pot 2.50 8 V/Omnad 4 Okiditing Pot 2.50 8 Option 40 Option 194 2 Option 3 194 2 Option 3 183 2	84 84 84 87 87 88 87 88 87 87 87 87 87 87 87 87	Price of the control	1 65 185 554 80 22 12 196 74 .18 7 205 1.20 108 14 73 54 64 10 24 .204 175 .77 7	2002 2004 -141 7 74 +41 3004 3004 1352 14 54: 52 -41 24: 24 -1
Mession 204 St. St. 52 14 Minor 1 1.36 69 371, 214 371, 271 48 Minor 2 10 93 271, 271 27 27 48 Minor 2 10 93 271, 271 27 27 48 Minor 2 10 93 271, 271 13 Minor 2 10 93 271 271 13	HMCS	Oze TP 2.56 33 2 Overlikhr 3.6 6 1 Oxec 118 7 P PNC 2.12 838 3	8 18 18 18 51, 20, 20, 30, 134, 134, 134, 134, 134, 364, 384, 384, 44, 144, 144, 144, 144, 144, 144, 14	-12 Ouest w -15 Ouest w OuesCre OuesMi OuesSy s Ouesm q +1 <sub>3</sub>	1 . 22 3 195 81 <sub>2</sub> 85 181 <sub>4</sub>	8 82g +4g 1 164g 165g -4g 1 84g 8 +4g 1 94g 94g -4g 1
MedCare 31S 10 94 18 Megdat 34 94 94 97 +1 Mentar 35 124 94 97 +1 Mentar 35 28 4 884 884 884 +1 Mentar 310 354 352 364 +1 Mechal 310 354 335 365 -1	Netrol 5	People s 90 9 Pentis s 10 93 9 Pentis s 10 93 9 Pertis s 10 93 19 Pertis s 136 1 Pertis s 136 1 Pentis s 136 1 Pentis s 13 8 Pentis s 13 8 Pentis s 13 8	76 163, 174, 15 8 8 . 3 125, 123, 123, 134, 134, 144, 144, 148, 18 . 18, 184, 184, 184, 184, 184, 184, 184,	-is RedDy a Redict Racce Racce Ragen a Rein -is Redny -is Rein -is Redny -is	52 159, 99 122, 214 72, 123 8 1.76 110 384, 456 81, 24 27 124, 52 79 294, 52 79 297,	10½ 16¼ -½ 11½ 12 11½ 12 5½ 5½ 5½ 7½ 36½ 7½ 36½ 11½ 12½ +½ 29½ 26¼ +¼
Marroy .08 45 81 77 77 1 -14  Marroy .08 45 82 77 77 1 -14  Marroy .01 141 55 55 57 +1  MdSStrd .30e .201 36-2 26 26 -14  MdSStrd .30e .201 36-2 26 26 -14  MdSMrd .21 45-2 45-2 45-2 +1  MdMrd .591 51 62 62 62 63 64 -1  MdMrd .31 21 21 21 21 21  MMRT .36 441 21 21 21 21 21 21  MMRT .36 441 21 21 21 21 21 21  MMRT .36 441 21 21 21 21 21 21  MMRT .36 36 363 333 334 -1  MMRT .37 36 360 363 333 334 -1  MMRT .38 36 41 21 21 21 21 21 21 21 21 21 21 21 21 21	MedicAG	Perman 1 55 228 1 PSPS 805 7 Pholast 8 205 9 Problet 80 695 1 Plocate 80 695 1 Plocate 30 695 1 Plocate 22 59 2	65, 18 165, 165, 165, 165, 165, 165, 165, 165,	Agoyf s Agoyf s Ago	20 757 F <sub>1</sub> 15 1 272 30 112 22 104 44 2 S <sub>1</sub> 114 11 53 112 35 10 18 77 80 239 104 2 860 224 279 105 20 30 32	11½ 11½ 95 95 -59 100 105 -19 11½ 11½ 11½ 11½ 7¼ 7½ +1½ 10 105 -19 10 105 -19
NEW YORK DOW SO			April Apri	Apr. April	High 1965	low
Apr. April Apr. Apr.	Apr. High Low High Low	AUSTRALIA All Ord. (7/1/88) Metals & Minis. (1/1/80)	756.1 756.5 588.7 530.7	761.2 744.5 534.7 525.1	787.9 (8/1/84)	487.4 (47.68)
o industrie 2122,22 1120,55 1142,56 1143,7 H'mo Bads 68,09 68,32 — 68,4	(29/11) (5/1/85) (25/11/83) (2/1/82) (1 66,67) 77,84 (68,00	AUSTRIA Credit Aiktion (1/1/61)	54,90 54,9	-	614.2 (6/8) 69.8 (6/5)	411.8 (4/1/48)
Transport 484.18 485.89 601.85 605.8 Utilities 125.45 124.95 128.11 125.4 Trading Vos	14 508.18 (812.88 (82.24 612.88 12.32	BELGIUM Belgien SE (51/12/65) DEMMARK Copenhagen SE (5/1/65)	150,59 150.0			100,50 (6/1/65)
000-t 86.620 191.75 92,860 57,8	6 88,686 — — — —	FRANCE	(u) 185,47	182,67 182,66	225,21 (20/1/84)	(0/1/60) V
	28.35 (1141.02)	CAG General (\$1/12/82) Ind Tendanos (\$6/12 \$5)	167.50 167.9 109.8 708.8		176.1 (25/1/84) 114.7 (25/1/84)	96.1 (5/1/85) W
Industrial div. yield% Mar. 30	Mar. 23   Mar. 15   Year ago (approx. 4.79   4.57   4.85	GERMANY	<del> </del>	1		V
STANDARD AND POORS	Apr. 1985-84 Since Comit's	FAZ-Aktien (81/12/68) Commerzbank (1/12/68) HONG KONG	1812,4 1816,0			241.88 (25/1/85) W 727.8 (25/1/85) W
triclustr'le 175,98 175,57 178,23 178,5 Comp's to 155,48 188,94 157,56 187,6	1 168.25 172.86 188.54 172.86 4,48	Hang Seng Bank(81/7/64)  ITALY  Banca Comm Ital. (1977)	1		1170.55 (19/8/84)	680,06 (4/15) W
Industrial div. yield % Apr. 6	(18/19)   (6/1/65)(19/8/65) (1/6/82)   Mar. 39   Mar. 31   Year ago (approx   3,97   4,00   4,30	JAPAN** Nikkei-Dow (18/5/49) Tokyo SE New (4/1/88)	10814,78 10992	9 11002,0 10935,6	11,950,19 (2/4/84)	7985.18 (25/1/88)
Industrial P/E ratio 11.20 Long Gov. Bond yleid 12.57	12.25 12.18 12.94 12.37 12.37 10.46 -	NETHERLANDS AMP-CBS General (1970) AMP-CBS Indust (1970)	189.5 182.5 129.4 150.7		178.9 (1 <i>21</i> 84)	180.1 N/1/88)
N.Y.S.E. ALL COMMON	Apr. 6 Apr. 5 Apr. 4	NORWAY Onlo 2E (4/1 #8)	268,14 268,2	288,44 285,95	268.98 (2/4/84)	98,61 (4/1/88) W
Apr. Apr. Apr. Apr. 1988-84	Rises Traded 1,993 2,002 2,003 Rises 507 381 677 Falls 922 1,246 864	SINGAPORE Straits Times (1986)	894,56 984,4	368,20 861,78		712,29 (5/1/63)
89,48 89,33 90,71 90,79 99,63 90,00 (18/18/ (24/1/83)	New Lows	SOUTH AFRICA Gold (1856) Industrial (1868)	(e) (u)	992.5 998.00 1062.6 1066,1		681,4 (1/11) 784,9 (6/1/68)
MONTREAL April April April 6	7. Apr. 1988-84	SPAIH Madrid BE (58/12/85)	116,48 116,8	116,86,187,64	120,40 (8/8/84) 10	08,00 (80/12/68)
Industrial 417,47 418,49 424 Combined 388,88 585,98 586	74 427,08 486,80 (26/9) : 321,16 (4/1/85) 411 400,78 441,28 (26/9) - 325,12 (4/1/88)	##EDEN & P. (1/1/64)	1566,61 1979 81	1604,28 1575, 16	1684,6 (8/8/84)	896,16 (5/1/68) W
TORONTO Composite 2518.99 2716.21 254		BWITZERLAND				
NEW YORK AC		SwissBankG pn.(81/12/58) WORLD	870.4 871,6	870,50 Sta,6	382_7 (3/1/84) 1	294,4 (4/1/88)
Thursday Stocks Closing on	Stocks Closing on	Capital Intl. (1/1/70)	166,8 -	187,7 187,7	189,8 (50/5/64)	754.7 (5/1/88) X
rraded price day Chrypler	Gulf Oil	Base values of all is 500. NYSE All Common less named bosed on 19	ndices are 10	O except Austr	-10: and Toront	71.32, and Metals— 2 0—1.000; the 2

## BUILDING

## **CONSTRUCTION CONTRACTS**

# Robert McAlpine £11m Scottish academy order

Situated on a 10,200 sq metre site ing contract valued et £250,000 bounded by Cowcaddens Street, at Iver in Bucks has been Renfrew Street and Hope Street, awarded by Thyssen. The drill-the loadbearing brickwork and structural steel framed building will contain four theatres, a teleground. structural steel framed building will contain four theatres, a television studio, worksbope, and practice rooms as well as 5 library, common rooms and restaurant facilities. There will be 15,000 sq metres of floor space. Emphasis will be on sound insulation and acoustics. Work that a tener for completion by

will contain four theatres, a television studio, worksbops, and practice rooms as well as a library, common rooms and restaurant facilities. There will be 15,000 sq metrees of floor space. Emphasis will be on sound insulation and acoustics. Work starts at once for completion by the summer of 1887.

Orders worth more than £4m have been won by HEYWOOD GLAZING SYSTEMS, the patent glazing and curtain walling subsidiary of Heywood Williams Group. The major contract, worth £1.5m at the Mancbester City Centre exhibition complex on the site of the old Central Station. It includes more than 7,000 sq metres of patent glazing and a further 3,000 sq metres of curtain walling. A contract for Plessey Telecommunicatioo, valoed at £4.00,000, involves refurbishment of an existing office block at Liverpool. In Carlisle, the com-£400,000, involves refurbishment of an existing office block at Liverpool. In Carlisle, the company has a city-centre redevelopment contract valued at £425,000 using continuous patent glazing. Other contracts worth between £270,000 and £100,000, include work for J. Sainsbury, Leeds and Bradford Airport, Motorola, East Kilbride and a glass assembly project at Waverley Market, Princes Street, Edinburgh.

STENT FOUNDATIONS, part of Balfour Beatty, has secured over f4m-worth of foundation work in the UK. Thailand and 1be Middle East. In Thailand its associate company Stent Seafco has been awarded two contracts totalling f1.5m. The major contract is for large diameter bored piles to the Landmark project, a botel and office development. The piles of up to 1.2 metres diameter will be constructed down to depths of 55 metres.

The Middle East work includes two contracts in Dubai for

A contract worth more than of 600 mm and 750 mm diameter film has been won by SIR plies and is valued at around ROBERT McALPINE AND SONS f400,000. At Surrey Docks the for the construction in Glasgow company is carrying out a vibro-of the new Royal Scottish academy of Music and Drama. f163,000. A drilling and grout-bit and prouting the first stated on a 10,200 sq metre site ing contract valued et f250,000 bounded by Cowcaddens Street at Iver in Bucks has been

Bullding work on the Gifford Park Primary Combined School is under way. The school and community annexe are part of a £900,000 project being carried out by JOHN WILLMOTT (BEDFORD), part of the Prinfordshire-based John Willmott Group of Companies. The building is due to be faished at the end of the year.

## **Gatwick North** Terminal frame

meter will be constructed down to depths of 55 metres.

The Middle East work includes two contracts In Dubai for installing bored piles using direct mud circulation techniques. The first is piling for a multistorey car park for Dubai Municipality. Alrport's North Terminal, About all Tayer. In Abu Dhabi. Stent has commenced piling for an office block in Juffair, Bahrain.

The contract is for construction

Terminal frame of Gatwick is is at Rowbeath, Birmingham, on the estate of the Bourroville village Trust. It will consist of two and three-bedroom units in three basic designs. The bouses will initially be offered for purchased at Darlington, Manchester and form the frame of a three-storey will be used to form the frame of a three-storey will be used to form the frame of a three-storey will be used to form the frame of a three-storey will be used to form the frame of Gatwick tree basic designs. The bouses will initially be offered for purchased at Darlington, Manchester and three basic designs. The bouses will initially be offered for purchased at Darlington, Manchester and three basic designs. The busics at Rowbeath, Birmingham, on the estate of the Bourroville Village Trust. It will consist of two and three-bedroom units in the supplied by the British lands the structure and three-bedroom units in the same of Gatwick trust. It will be offered for purchased at Darlington, Manchester and three-bedroom units in the same of Gatwick trus



## French Kier £11.7m batch

FRENCH KIER CONSTRUC-TION, a member of the French Kier Group, has been awarded contracts totalling £11.7m during

Huddersfield, Wimpenny's will build nine factory and worksbop units under a £300,000 contract for Kirklees Metropolitan Development Co. At Halifax, the construction division is to undertake further alterations and extensions at the Holdsworth House Hotel, for £250,000. Fire damage building at Perseverance Mill, Wibsey, is worth £280,000, and the concrete treatments division has a £380,000 contract from West Derbyshire District Council for structural repairs to 68 Airey houses at Matlock using the Shawconcrete system.

Ninety energy-saving houses are to be built for Bournville Village Trust by LOVEIL CONSTRUCTION (MIDLAND) under a £2.Im design and build contract. The client is the St Laurence (BVT) Housing Association. Work has just started for completion in 58 weeks. The site is at Rowbeath, Birmingham, on the estate of the Bouroville Village Trust. It will consist of two- and three-bedroom units in three basic designs. The bouses will initially be offered for purchase to tenants of Bourneville Village Trust.

nt complies with the requirements of the Council of The Stock Exchange of the United Kingdom and the Republic of Ireland.



# Ireland £50,000,000

## 113 per cent. Bonds 1994

Issue price 100 per cent.

The following have agreed to subscribe or procure subscribers for the Bonds:-

S. G. Warburg & Co. Ltd.

Algemene Bank Nederland N.V. Bank of Tokyo International Limited Baring Brothers & Co., Limited Commerzbank Aktiengesellschaft Credit Suisse First Boston Limited Dresdner Bank Aktiengesellschaft IBJ International Limited Lloyds Bank International Limited Samuel Montagu & Co. Limited Orion Royal Bank Limited Sumitomo Finance International

Allied Irish Banks Limited **Barclays Merchant Bank Limited** Citicorp International Bank Limited County Bank Limited Daiwa Europe Limited Hill Samuel & Co. Limited Kredietbank N.V. Merrill Lynch International & Co. Morgan Grenfell & Co. Limited Standard Chartered Merchant Bank Limited Wood Gundy Limited

The Bonds, in the denomination of £5,000 each, have been admitted to the Official List of The Stock Exchange of the United Kingdom and the Republic of Ireland, subject only to the issue of the temporary global Bond. Interest is payable annually in arrears on 30th April, the first such payment being due on 30th April, 1985.

Particulars of the Bonds are available from Extel Statistical Services Limited and copies may be obtained during usual business hours on any weekday (Saturdays and public holidays excepted) up to and including 25th April, 1984 from:—

W. Greenwell & Co., Bow Bells House. Bread Street, London EC4M 9EL

Phillips & Drew, 120 Moorgate, London EC2M 6XP

9th April, 1984



Tourist Service Offices: Budapest, V., Petőfi S. u. 16. Budapest, VII., Lenin krt. 47. H-1052 H-1073 Tel.: Tel.: (361) 228-668, 228-669 (361) 183-018. 183-393

Telex:

22-4696

Telex:

22-4696

Wien, Remigasse 12. A-1010 Tel.: (43-222) Telex: 136019

Isaria-Reisen München 2. Neuhouser Str. 47. D-8000 631249, 663718 (83) 237230 *52 48 18* 

will be - Hungar Hotels, Hungary's largest hotel-chain. From small family hotels to the best luxus-hotels we run all over the country 46 houses. You will find Hungarian specialities in our restaurants, high-life in our night-clubs," friendly atmosphere in our coffee-shops. Our staff - 10.000 experienced specialists are proud of working for our company to serve you. Be our guest and your answer will be -Hungar Hotels.

## Scott Goff Layton & Company

**PARTNERS** 

D. A. Grenier D. M. Ambrose P. S. Arghebant A. C. Bull

P. A. Clifton C. H. James D. J. Couzens K. H. L. Layton B. Mackley D. M. de Yong

Salisbury House, London Wali, London EC2M 5SX

H. P. Chance

J. D. Layton

C. D. N. Dickman C. D. J. Pearce B. R. Peerless

. H. M. Doe K. J. Duke R. J. Franklin R. C. Harwood

B. R. Smithson E. C. Stenning K. S. Taylor M. A. Unsworth M. I. Wilkins

A. H. Woolf

M. A. Salmon

LIMITED PARTNERS

A. S. Caplin

Telephone: 01-628 4433 International Dept. Direct Line: 01-628 3552/5 Telex: 886594

of transport (6)

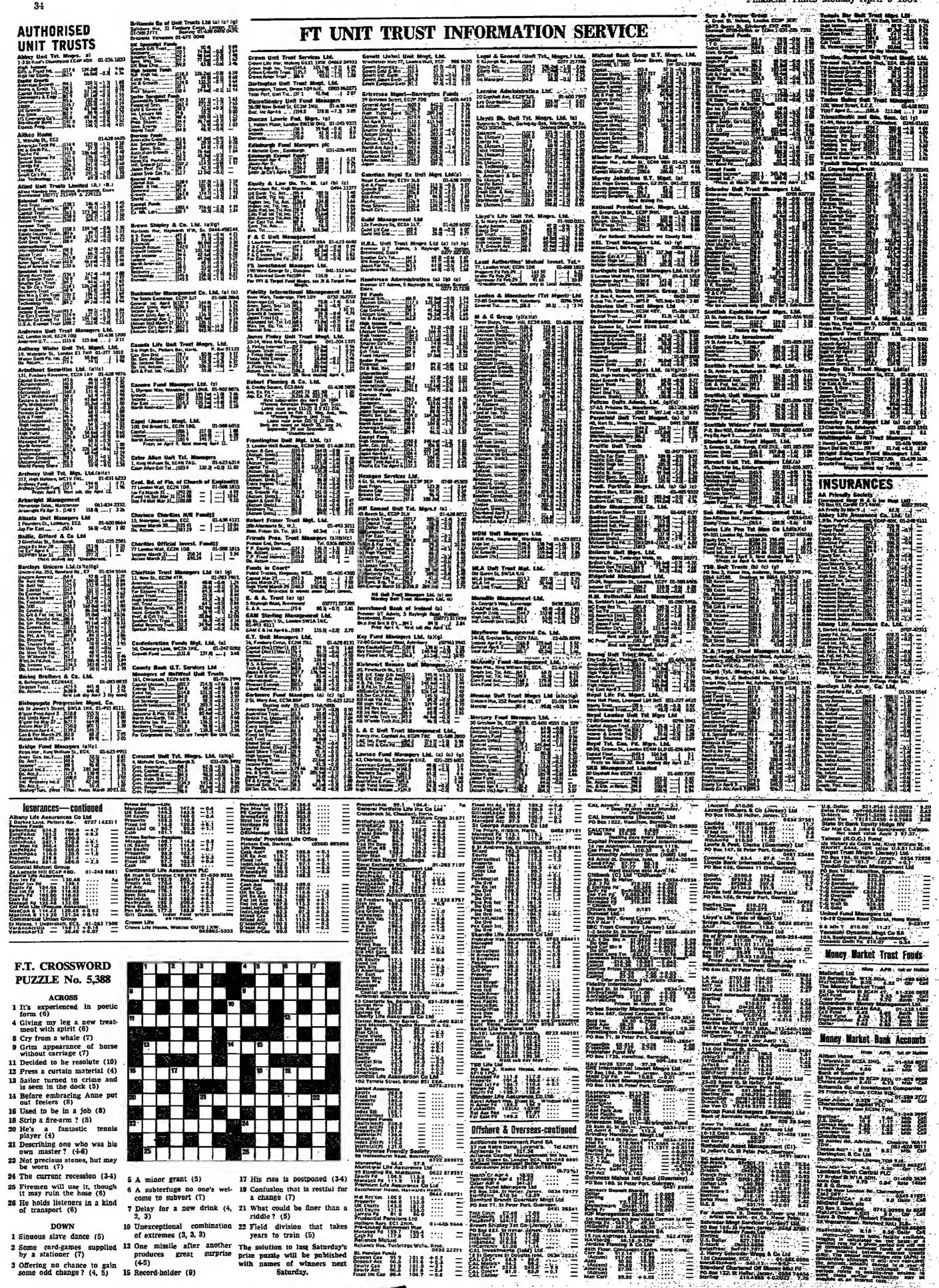
DOWN

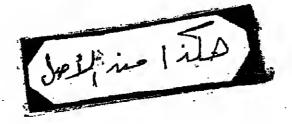
3 Offering no chance to gain some odd change? (4, 5)

1 Sinuous slave dance (5)

by a stationer (7)

**建铁道** 





riddle? (5)

produces great surprise prize puzzle will be published become case 95 g (4-5) with names of winners next Early Acc 96.5 Record-holder (9) Saturday, Fixed fee Case 99.4

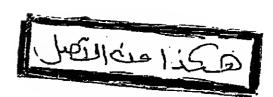
years to train (5)

10 Unexceptional combination 22 Field division that takes

of extremes (3, 3, 3)

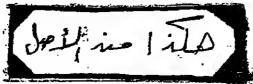
15 Record-holder (9)

2 Some card-games supplied 13 One missile after another The solution to last Saturday's



# Figure 1 times Monday April 9 1984 INSURANCE & OVERSEAS MANAGE INSURANCE | Hambro Pacific Fund Mignet, Ltd. | 2110, Commaphic Centur, Farg Noog | Ser Ext agrid | Ext 32 | 488 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.0 INSURANCE & OVERSEAS MANAGED FUNDS Barctays Unicorn International | SERCINYS UPSICOTO INTERNATIONAL | Charley Gross, St. Heller, Jorses, 9234 73741 | Unique Trust | 154.09 17.04 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.0 Britannia Intl. Investment Mingast, Ltd. Box 271, Queenway House, Queen Street, OL Hener, Jersey, C.I. 0534-73114 | Deposit Ord. | 100.4 | 115.2 | | Pero, Far ESTP. ACC. | Parel | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100. Investment 170 International 21 Pession Fand Prices Managed Init. Do. Accum. Property Init. Do. Accum. Equity Inst. Do. Accum. Gun-Edged Init. Do. Accum. Gun-Edged Init. Do. Accum. International Inst. Do. Accum. International Inst. Do. Accum. Index Lie, Gfit Inis. Do. Accum. | Continue Valued wrelay Wednesdry. DWS Deutsche See. F. Wertpapiersp Gruneburgweg 11.3, 6000 Frankfur Investa Di00.41 41.40[-0.15] — Belta Group P.O. Box 2012, Nastan, Bakamas Oela Inv Mar 27 — 54.27 4 48[-0.05] London Agens: Kleinnord Berson, Tel: 01.623 8000 | Control of Pent Acc | 143.5 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 | 1.1.3 The state of the control of the cont | Section | Colored | Colo

36		· · · · · · · · · · · · · · · · · · ·	and the second s	A STATE OF THE PARTY OF THE PAR	Times Monday April 9 1984 HOTELS—Continued
Please watch Angela Rippon on BBC-1 TV at 6.35 on Sunday, April 15th	FT LONDON	SHARE IN	FORMATION	SERVICE	Seed   Stack   Street   See   Chart   See
appealing on behalf of St. Love's College for Training the Disabled for Commerce and Industry. Donations to	AMERICANS BU	ILOING INDUSTRY, MBER AND ROADS	DRAPERY & STORES—Cont.	ENGINEERING—Continued	May   Declayon Notes: 5p   18   4780
St Laur's Callege Essential EVETER	C Man Ann Islandon I abe II   2011/10 1   57 70   120   Giridents	Last Nov   YTME	Price and Net Cur Service		INDUSTRIALS (Miscel)
BRITISH FUNDS	F May Aug LifAbort Lab. II	EC 58p 214 0 L11 19.0   6.0   187 3.70 16.3 3.0 5.0 9.5   187 3.70 16.3 3.0 5.0 9.5   187 3.70 16.3 3.0 5.0 9.5   187 3.70 16.3 3.0 5.0 9.5   187 3.70 16.3 2.60 6.8 0 18.00 16.00 1	Juce No. Nove Charm 10p. J. 1822(15.3) 02 0 0 1 1.4322.1 Dec. Judyflase of Fracer. 368 5.30 7.51 18 0.346.9 Dec. Judyflase of Fracer. 368 5.30 7.51 18 0.346.9 Dec. Judyflase of Leroxe. 1288(12.3) 0.0 0 8.99 0.0 Apr. Judyflase of Leroxe. 1288(12.3) 0.0 0 8.99 0.0 Apr. Judyflase Prode 20p. 47 27.2 25 0.5 1.6352.1 Dec. Apr. Lades Prode 20p. 47 27.2 25 0.5 1.6352.1 Judyflase Prode 20p. 47 27.2 27.2 27.3 Judyflase Species 20p. 48 27 27.2 27.2 27.3 Julyflase 10p. 127 27.3 Judyflase Species 20p. 48 11 15 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	July Feb Brockhouse 533-1617 40.1 0.1 0.1 Feb. Not Brown's Case 100 69 1017 2.259 2.7 5.477 Nov May Brook Eng 10p. 157-165.3 1.04 6 9.8 6 10.1 2.259 2.7 5.8 677 Apr. July Brooke Tost 20 9781 5.2 Apr. Aug. Brown & Taeste. 25 27.2 3.85 2.2 5.8 9.7	June Dec 46A AB K50 534 126.5 102070 4 7 4 4
httpress   Stock   Price   Last   West   Stock   E   1881   Stock   E   1881   Stock   E   1881   Stock   Stock   E   1881   Stock   Stock   E   1881   Stock   Stock   E   1881   Stock	Mg M N Flamentech S1	pridge 6/st. 334 30.19 \$2.27 \$4.975 vy Ben 10p 40 71-31 71-24 31 44 6.2 ant Dev. 70p 128 1.10 72.6 12.3 8.3 7.7 ford M. 10p 55 2.9 13-68 17.7 7-4010.6	May Nov. Interty. 270 3.10 13.0 1.9 1644.9  Nov. Co. Non Yes. 183 3.10 73.0 1.9 2.336.5  Sept. Adr. Intercht K. 10p. 86 21.2 3.0 3.2 5.0 7.8  Nov. Adr. Adr. From there 10p. 173 13.2 13.7 20 3.1 18.1  Jun. July Marks & Spincer 280 14.1 15.1 2.1 2.824.3  Feb. July Marks Reps. 140 2012. 6.12 2.6 6.2 6.5	Apr. Sept. Sept. Sept. Mark (Subsequence Control Con	Mar. Uci Mitery Ltd. 42 5.9 (1923) 2.1 1.5 5.0 1
28 22 May Each   3pc   1984   106   1/27   1013.97   9.06   190   1914   1924   106   1/27   1013.97   9.06   190   1914   1924   1014   102   1014   102	My Au N Forbell Maint         47-4827.3         \$6.40         0.5         Mar.         Aug. Rep. Rep. Rep. Rep. Rep. Rep. Rep. Rep	803. 20p	July Feb NSS Ness 100	Feb. Assidancia Eng	Mary   Cct, AGG Generate 100   395   15.2   77.0   15   2.0   2.
15Jan 15Jal Treas 11go 1935	Lan Op Ny OCPC   255/5312 51.20   6.1   Ougust   Birt Op Ny Au   Nicoteronitary   1.2	m Jisa 200- 18 972- 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Age. Aug. Jones (Ernes) 16p. 70 27.2 d3.9 0.9 G.0/21a Mar. Oxiffken Lichel 5g. 43 bgl.23 22 d.1h5.27 Aug. Hot Lee Cooper 147 27.2 75 0.5 1.85.27 Aug. Hot Lee Cooper 143 Bl.0 73.32 5.6 3.8 5.7 Aug. Hot Lee Cooper 143 Bl.0 73.32 5.6 3.8 5.7 Aug. Hot Lee Cooper 143 Bl.0 73.32 5.6 3.8 5.7 Aug. Hot Lee Cooper 143 Bl.0 73.02 73.0 1.9 2.339.5 Nov. Abr. Lee Cooper 150 170 3.10 73.0 1.9 2.339.5 Nov. Abr. Lee Cooper 150 170 3.10 73.0 1.9 2.339.5 Nov. Abr. Lee Cooper 150 170 170 3.10 73.0 1.9 2.339.5 Nov. Abr. Lee Cooper 150 170 170 170 170 170 170 170 170 170 17	Feb. 3dy/Cherwing 50 608 No.1 7.64.1 1.819.4 Feb. Oct. (Dirictly Brts. 39 1179 1 1.819.4 Aug. 14.2 1.819.4 Feb. 309 12.2 15.4 2.4 3.6 22.1 15.4 2.4 3.6 22.1 15.4 2.4 3.6 22.1 15.4 2.4 3.6 22.1 15.4 2.4 3.6 22.1 15.4 2.4 3.6 22.1 15.4 2.4 3.6 22.1 15.4 2.4 3.6 22.1 15.4 2.4 3.6 22.1 15.4 2.4 3.6 22.1 15.4 2.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	Page Official Computer - 729 14.11 19.2.2.2 0.431.3 15.1 15.2.2.2 0.431.3 15.1 15.2.2.2 15.0
19Nv 19Ny Exch. 10 pc Cr 86	F6 M7 Au MBah Omerica Corps	The Position - 51 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Aug Feb Relaylord Suprems 227 116.1 gc.9 0.2 3.7 9.8 Dec. July/Readcan 59	ian. Septimers Generics. 27 17.4 32.5 1.3 4.9 4.7 1.5 4.7 1.5 4.7 1.5 4.7 1.5 4.7 1.5 4.7 1.5 4.5 4.7 1.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4	Monember   Aurenour Triest 10p   24   2211   0.17 (4.9   1.0   1.4     Apr.   Oct (Apidage and Triest 12pg   25   1222   19 (6)   1.   174   4.9     Apr.   Architect (Apidage and Triest 12pg   25   1222   19 (6)   1.   174   4.9     Apidage (Apidage Apidage and Triest 12pg   276   1224   1224   1236   4.9   1.0     Manuary   Molecule Energy 59   361   1222   1236   4.9   1.0     Apidage (Apidage Apidage and Triest 12pg   1.0   1.0   1.0     Apidage (Apidage Apidage and Triest 12pg   1.0   1.0     Apidage (Apidage Apidage and Triest 12pg   1.0   1.0     Apidage (Apidage Apidage and Triest 12pg   1.0     Apidag
21May 21Miesch 23gc 1988	F May Au NK ont. Hinnels 95 12\(\text{led} 97.3\) 52.00 11.5 Oct. Apvil Crou  Apv Jy O Jak Crown Zell 55 25\(\text{led} 12.3\) 51.00 2.7 Sept  Apv Jy O Jak Crown Zell 55 51.86 Apv. Oct. Doug  Mar Jun S D Qana Corp. 51 17\(\text{lef} 17.2\) h74.7c 3.0  Derma-Lock Medica   84g   Nov. Maylerth	610.1209	Feb. July Bo. 4 13 13 13 14 6.8 0 6.8 0 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Aur. Oct. Dany Corp. 78 5.9 2.71 6 4.5 6 Aur. Oct. Dany Corp. 77 27.7 3.69 1.2 7.355.9 1 August Danis J. H. 10p. 25 7.81 1  Mar. J. Sportes 500 184 92.2 5.9 6.9 1  Mar. J. Sportes 500 184 92.2 5.9 6.9 1  Mar. Mark Oct. Mark Oct. 185 19.9 7.8 1	htty
**Shorts** (Lives up to Five Years)  22Mag/Each Japa 1984   1001/17/10113.97   9.06  190 194unfect, 30c 1984   96-31/11   3 04 8.70  22Mag 25F Freas 1520 7934   1005/1011.13.34   9.06  22Mag 25F Freas 1520 1985   105/1011.13.34   9.06  12Mag 15-101/102 5gr 1985   105/1011.13.34   9.06  12Mag 15-101/102 102 103   1005/1011.13.34   9.06  12Mag 25F6/Each 12/20 1985   105/1011.13.34   9.07  12Mag 25F6/Each 12/20 1985   105/1011.13.34   9.07  12Mag 25F6/Each 12/20 1985   105/1011.13.34   9.07  12Mag 11Mech 250c 1985   105/1011.13.34   9.07  12Mag 11Mech 250c 1985   105/1011.13.37   8.06  12Mag 11Mech 250c 1985   105/1011.13.37   8.07  10Mag 11Mech 250c 1985   105/1011.13.31   10.06  10Mag 11Mech 250c 1985   105/1011.13.31   10.06  10Mag 11Mech 250c 1987   105/1011.13   10.06  13Mag 11Mech 250c 1987   105/1011.13   10.06  10Mg 10Mg 10Mg 10R 198   107/1011.13   10.06  10Mg 10Mg 10Mg 10R 198   107/1011.13   10.06  10Mg 10Mg 10Mg 10R 198   10.06  10Mg 10Mg 10Mg 10Mg 10Mg 10Mg 10Mg 10Mg	F My Au Michant (rp. 50-50 — 3937) 2 80d — 1.7 May-0ct Sets. Jan Ab Jly Olegenark 51 — 25 July DesPets. Mar Jun S DIPERRORIL — 56747.11 \$3,20 — 8.4 July DesPets. Jan Ab Jly Offirst Cheage 55 — 354(2) 11 \$1,32 — 6.0 Jan. Maylinis Mr. In Sep Offirmia Finner 5 Light. 554(2) 2,5 5 60f — 10 0 Mar. Septificant	**Fish Ecosto - 128 7.10	Per Aug (Streets a 5 fm W - 106 106, 1 14.73 1.5 6.416.6 )  Ch. Apr. Streetser 3 (100 - 100 100 100 100 100 100 100 100 10	Paid   Sinck   Price   181   Ref.   Cwr   Ers   RE	Bardsey 100 11 23.5 87
22Aug 22Fb/re44 11/gc 1989 100 2016 117.09 10.46  Five to Fifteen Years 140ec 1-Judjires-10/spc 1986	Jan Apr Jly Officer Corp. 59	h Kier 133 521 145 30 5.2 6.3 6.3 6.3 6.3 6.3 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	tan ArtyTime Practs. 10p 27   6/82	97. Oct   Fight 16. Mr. 1 109 213-27.2 + 140.3   La   2.079.1   Mr. 1   2.079.1	Manifeston Clark Tolong to On A 1
Five to Fitteen Years  14Dec 1/2 Justi 1-eas, 10/2 pc 1-96	F May Au Nicont Hundic 95	Price   St   Ret   Cyrr   Ret   Price   Ret   Cyrr   Ret   Price   Ret   Cyrr   Ret	Jan.   Apr.   Peters   Stores   10n   98   Ca.11   d.2.0.0   2.0453.8     January   Pamar   Perus   5p   76   12.12   3.5   0.8   6.403.8     January   Pamar   Perus   5p   76   12.12   3.5   0.8   6.403.8     January   Pamar   Perus   5p   76   12.12   1.7.3     Aug.   Seef, Radners   10n   45   6.5   2.3   7.3     Aug.   Seef, Pickylord Susceene   227   Ta.1   g4.0   0.2   3.7   9.8     Aug.   Seef, Pickylord Susceene   227   Ta.1   g4.0   0.2   3.7   9.8     Aug.   Seef, Pickylord Susceene   227   Ta.1   g4.0   0.2   3.7   9.8     Aug.   Seef, Pickylord Susceene   227   Ta.1   g4.0   0.2   3.7   9.8     Aug.   Seef, Pickylord   2.0   2.0   2.0     Aug.   Seef, Pickylord   2.0   2.0   2.0   3.7   9.8     Aug.   Seef, Pickylord   2.0   2.0   3.7   9.8     Aug.   Seef, Pickylord   2.0   2.0   3.7   9.8     Aug.   Seef, Pickylord   2.0   3.7   9.8     Aug.   Seef, Pickylord   2.0   3.7   9.8     Aug.   Seef, Pickylord   3.0   3.0   3.5   3.0   3.5     Aug.   Seef, Pickylord   3.0   3.0   3.5   3.0   3.5     Aug.   Seef, Pickylord   3.0   3.0   3.5   3.0   3.5     Aug.   Seef, Pickylord   3.0   3.0   3.0   3.5     Aug.   Seef, Pickylord   3.0   3.0   3.0   3.0   3.0     Au	th July 144 Matthews 267 12 12 16 1462.6 3.315.2	CF Septiagnes Clarkers 67 12.22 1.06 21 2.338.9 (c) 40.0
2590 25001 ress. 100cts 1990	Mar Jun S Dilingersoil-R \$2	of Shullop 47 13.7 191.5 14 4 4 7 13.7 191.5 14 4 7 10.5 19 19 19 19 19 19 19 19 19 19 19 19 19	ELECTRICALS  Any Nov. la. B. Electronic: \$20 or 117 10	DC. Martine Sop	Sign
25f0 254gEach 124gpt '92	an Ap Jly Oddhani, Nan, \$7.50 244-25J1 \$3.04 92 July Jones 1 50.04 92 July July July July July July July July	ings A5 50 — 102   33   Q204   21   4.475   0 Bers-Pt. 10p   108   123   4.0   6   5.7   0 Edwell 10p   24   6777   — — — A P Cop. F100   530   6.7   6.024   6   5.8   0   3 Ulohin     175   1.10   72.88   7.8   2.3221   n U.] 61   225   12.72   10.0   3.0   6.04   4   1	Ranch JASEA AR A CONTROL STATE STATE OF THE	9: Oct. lones & Shipman 45 114 10 4 3.7 4	ay Edificat Herryl 50p. 312 [41] 14-5 [4 6-681] 9
270: 7740 ff ach 13/pc 1994 1114 fs 117.43 10.94	10   17   17   17   17   17   17   17	nce (W.)	Designation	MayLake & Elige 29 (6/32 )  MayLake & Elige 29 (6/32 )  MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (Arthur) 12 <sup>1</sup> / <sub>2</sub> 183, 10.1    MayLake & Ling (	Hy Ap 86 (Burg-W. US\$230 2131-111 (\$6.86 4.5) by thro-flowers C1 300-111-1 (\$6.86 4.5) c. May(banner 20p 192 3.10 6.2) 4.7 6 c. May(banner 20p 192
15mg 15ml reas, 14pc '90	May A Internet 55	76 Store 209. 425 16:1 693.3 38 1.1151.4 34 Mayhin & H. 146 3.10 7.0 6 7.1 6 16 Store. 166 30.1 73.9 20 3.513.2 36 rs 18160) 176 48 7.1 6	m. July Black Harnest 20p 71 277 62.0 5.4 0.7/25.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	entember MS Imperal 10p	10 Januari
22Jul	Ir Jo Se DelSaul IB. F.157	## Min   208   2772   16.073 0   4.19 2   Min   1772   177	by Dec Chloride Grp	7. Nov. Middland Lyds. Sp	MayB. N. Prop. SAZ
1Nov 1M syffress-Size 1495-8555	1.00 sc dec(10W inc \$14a   43   72   \$2.80   45   May NoviMod, & of Mis also firenesca \$5   \$28,51.1 \$2.80   45   July \$5,81,Monit of \$1.2 \$1.00   1.	Miners 24 Fa2 A 3 7.1 5.0 De 12 A 3 A 3 7.1 5.0 De 12 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A	#Chaire 10	Nov. Metil Class Holps 45 1.10 3 8 1.10 7 Per Nov. Meternation Tourist 1.10 8 1.10 8 1.10 Per Nov. Meternation 1.10 Per No	0   Febiliarus Amis 230a   50   30.12   -2.2   1.4   6.315.6
Over Fifteen Years MM 19Nv 19MaylTreas, 101pp; 1999 1024j 10.41 [10.44 [18] 14.44 1244lTreas, 13pc 2009 12114a.1211.0111.003 [M	Ap Ju OGTransanenca 51	Timber 112 1017 71.5 1.5 8.3 (Timber 112 1017 71.5 1.6 4.7 Apr 120 12 12 12 12 12 12 12 12 12 12 12 12 12	- #086 Technology 106 80 - 4 30 9 30 9 30 9 30 9 10 100 12 3 92 1 9 30 9 30 9 10 100 100 100 100 100 100 100 100 1	Aug Pregier Hairviley 222 22.11 171.85 2.8 6.7 7.6 Dec Mary Planet Gro 10p 61. 17.19 2.75 \$ 6.6 \$ 0 D. Aure Pereir Chad. 20p 138 22.5 0.55 0.40 1.50 Presente Parker 58 2780 0.40 1.50 Presente Parker 58 2780 0.10 0.7 58 28 2.82 1.30 RNP 25 2.82 2.82 1.25 1.2 3.103.85 Sep 1.30 RNP 25 2.82 2.82 1.25 1.2 3.103.85 Sep 1.30 RNP 25 2.82 2.83 2.83 2.83 2.83 2.83 2.83 2.83	enormer   Do. Sapt Com 125   12.12   13.44   9.6     9.6
22N 22MayTreas, 14nc 198-01	CANADIANS  CANADIANS  Get Red and Dec Red	16 Wrms.3 - 188	0. Sept Desirons 1 A 10p	Ang   RFP   ST   St   St   St   St   St   St   St	Name
23/16/25/36/freas, 113/sc 2003-07/ 1155/16.12/10.03/70.22 M2 265p 26Martreas, 13/sc 204-08 127/420.210.65 10.31	Ap J 00Brascand 201527.J0 \$1.60 4.5 May Oct Sheffel 525p 20.3 4.5 May Oct Sheffel 4.5 May Au NoCan, Imp. 8t., \$2	Brick 17 17811 1	### Electronic Macha   50   773   329 0.8 B.621.8 Jan   50   773   329 0.8 B.621.8 Jan   50   51	Nov   Michards   Leics   58   10.18   2.0   5.0   Nov   Michards   Mes   5.00   27   21.5   0.1   0.5   Feb.   Mes   Mes   Mes   Mes   5.01   10   5.9   1.85   6.51   6   Mes   M	Aug. Cheeb 2 to
Undated  Feb 1/Aug/Consols 4pc	Ap Jy Ocican P. Ent.B	75-26.3 44.1 2.1 7.8 7.7 Feb	0. Augh Feedback 100	hart 600 Group 780-1722 525 9,5 657 phender Smith Whit 5p 57 6779 1 657 ###Spear & Jackson 1 56 (441) 11.05 1 1.021.5	Considerate   100
544 Ap J/7 O(Corsols 2/2pc	May Au Nofflind Nat Gas \$1 788g 19.1: \$1.10 - 8.2 Aug. Feb Vectos \$1.10 - 8.2 Aug	186   186	Full transport of the control of the	Jan Startey Inds. C1 _ 252 14.11 11.0 1.6 7.402.0 1	
25 July Do. 2pc '90 (333,01) 895 365 4.22 Mr 16Mar 1656 Do. 2pc '96 (367,91) 105 82 3.92 3.61 Se 22My 22Ny Do. 21goc '99 (322,01) 985 1710 2.75 3.00 24Mar 2556 Do. 21goc '91 (308.81) 985 18 3.83 3.85 3.86	Price   Pric	95. 100. 138 27.2 65.19 3.9 57.5.0 Aug 1.5 10. 125	- Witempelinetics Ic 15   -   -   -   -   -	Octionates F. N. 5p. 41 11.2 11.5 2.6 3.211.5 May Aug Priote Forest 44 18.7 0.5 1.6 Day Day Feeling Series 20.0 12.0	July Davies & N. Sann 380 12.12 (46.69 3.5 7.1 4.4 Aug De La Rie 628 1617 29 5 7.0 5 400 20
20May 20M 0c. 21pc (03 (310.7)]	# 10 Dec Peré 33	Frous 10p 64 27.2 43.4 6.5 7.0(941)  Ornotity1 196 19.9 2.48 6 121 6 34.6  Geo) 144 04111172.73 4.2 2.77 9.6 Oct.	######################################	Just   Victor 2   159   26.3   8.0   1.6   2.2   1.0	Sept. (Dismood St. 18th   34   1.8   0.45   1.0   1.
Prospective real redemullion rate on projected invlation of [1] 10% and (2) 5%. III Fourcs in parentheses show RPI base month for indexing, le 8 months prior to issue, RPI for February 1984; 344.0	Paid Stock Price 20 Set Gw Graf Pric CHEM	ICALS, PLASTICS	April Logica 10p	Oct Do. 10% Cw Pri 55 19.9 25 0 10.2 June June Sept-Weilman 17, 15.51 to 1	Dec Duert Group Inc. 28 31 10 20.3 1 1 15.00
INT. BANK AND O'SEAS GOVT STERLING ISSUES 28Jan 28JhylAustralia 13-pc 2010   120 kv.12   11.50   11.38   26 Apr 2600 Do. 11-2 kun2015 1000 kpl   11.20   11.24   23Mar 26Josephin Br. 11 cl. 1 2021   20	June/Allied Irish	0450 SAGLET 20109 11 10006	Manual   M	Sero   Welfman   17   15.8   80.1   0.8   Apr. Feb.   Westland   188   30.12   8.25   3.0   6.9   5.   Apr. Feb.   Westland   188   30.12   8.25   3.0   6.9   5.   Apr. Feb.   Sero   10.9   10.9   10.12   0.9   3.0   5.0   1.0   5.0   1.0   5.0   1.0   5.0   1.0   5.0   1.0   5.0   1.0   5.0   1.0   5.0   5.0   1.0   5.0	10.01
1May 1 Nov[Finland 14]:pc Ln1986	Juny Cater Allen Cl. 490 Rt. 11 126 45 1 13 Feb. Aug Brit. Tar April Chart. J. Rotteshild 121 4 5 5 6 Dec. Juny Brit. Target	0M 50 - 955429 6 - 18% 6 2.3 6 1 1 1 1 1 2 1 2 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Milet Corp. 1 486	day.	Appel Esan & Robbins 47 for 12 2 9 3 3 7 64 44
1Mar 1SeplMes 15-3rc 2008	Nov. Cities Out no. 200	Br 6194 1297 2000 000 1111 111 111 111 111 111 111 1	Jul Mourteau	FOOO, GROCERIES, ETC May May 100 Ct. Sandy Group 255 15721 15 d p. 27 s. 25 d p. 27 s.	Se Delimbart Cara, 51
CORPORATION LOANS  30Apr 310ct Bath 114pc 1985	First Nat. 10p	100 125 U.M 7.0 \$ 8.3 \$ Nor rep. 25 18.7 12.66 14.6 5.3 Jan rep. 12.66 14.6 5.3 Jan rep. 12.66 15.8 4.815.8 12.110p. 72 U.M 3.03.0 6.01.0 Mar.	Dec   NEC Corpn Y50   436   15.11   07.3 %   1.9   0.377.1   Feb.   333.5.10   14.75   2.1   7.3   7.1   Agr   3.0   4.75   2.1   7.3   7.1   Agr   3.0   4.75   2.1   3.0   4.75   3.1   3.0   4.75   3.1   3.0   4.75   3.1   3.0   4.75   3.1   3.0   4.75   3.1   3.0   4.75   3.1   3.0   4.75   3.1   3.0   4.75   3.1   3.0   4.75   3.1   3.0   4.75   3.0	Sept. Mas. Birt. F ds. 5p 174: 18.1   18.27   3.8   1.5   0.3   3.8   1.5   0.3   3.8   1.5   0.3   3.8   1.5   0.3   3.8	June   Series   193   1411   13.35   2.3   3.24(5)   58rt   Evidence Ferres   193   13.2   2.44.4.0   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6714.4   2.6717.4   2.6714
15feb   15Aus/GLC 6-Apr. 1990; 62	AprilGrindlays	M5 462 15.6 v11 v11 v 1.0 3.112.2 Au  Num. In 5788 12.12 (10 v 1 5.4 - 5	#65 (Growins Jop 240 4.7 16:59 1.93.24 Juny 265 2.31 113.6 5.3 1.93.24 Juny 265 2.31 113.6 5.3 1.93.29 Juny 265 2.31 113.6 5.3 1.93.29 Juny 265 2.31 113.6 5.3 1.93.9 Feb 265 2.31 113.6 5.3 1.93.9 Feb 265 2.31 12.3 0.99 26.0 Doc 26.0 Juny	OCC Hain's I Siday C.1	July Foreston Ind
15Jan 15Jlyl, CC Stor. '92-84	June Joseph (Leo) 21	75 - 122 - 52.7 2.5 2.7 4.7 4.4 May 195. 1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1 3-1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pilio Isolates   10p   185   10   10   10   10   10   10   10   1	June County 30p 74 17.10 4.02 1.0 7.810.71
COMMONWEALTH AND AFRICAN LOANS June Dec.	Oct Marcon Fin. 20p 32 31.0 91 0 1.1 4 5127.9 Feb. JulyPhysi Dp. 20p. 383 12.3 25.5 2 3 9 Apr. May May May Do. 7 Feb. 500 Revision May Dec Do. 10 Feb. 500 Revision May No. Revision May Dec Do. 10 Feb. 500 Revision May Dec Marcon Bases 143 17.10 47 12.1 4.7 13.2 Feb. 500 Revision May	m-10p 202 27.2 6.5 2.1 4.614.2 Acr. 1.89 9 2.1 4.614.2 Acr. 1.89 9 2.1 4.614.2 Acr. 1.89 9 2.1 4.614.2 Acr. 1.8000 69 775 - 18.5 2.7 7.4 9.0 Feb. 1.8000 69 775 - 18.5 2.7 2.8000 Feb. 1.8000 7.8000 69 775 - 18.5 2.7 2.8000 69 775 - 18.5 2.7 2.8000 69 775 - 18.5 2.7 2.8000 69 775 - 18.5 2.8000 69 775 - 1	Nov   Persey   232   12.3   17.3   3.6   2.0   18.5   100	Uctoril Venora 200   98, 5.9   0.7 2.9   1.111.0   Aug	July Gueco Misses 178   121   7.0 0.9   5.6 29.7   Mary Otherwell Harvey 120   17.10   0.0 1.0   7.119.4   June Francis Inds. 120   17.10   0.0 1.0   1.5   0.5
15.une 150rd Do. 77.gc 83 - 86 95 415.11 8.00 71.03 June 150rd Do. 77.gc 83 - 86 95 415.11 8.00 11.16 June 105e Do. 19gs 80 - 85 485id 88 10.2 3.99 12.80 Jac. 756 7Ag Do. 44gc 87 - 92 Astid 62 9.1 7.47 12.40 May 15Ap 150d2 mbather Ann 16100pul 339 15.3 13.18 Jac. Fülk	July Royal Bit, ol Scot	142 26 2 47	109 19.9 32 4 4 3 4 May A	Oct Do. '87' N-V 1199806.3 5.8 \$ 5.0 \$ Mar. 3 Decluder's 20p 1238 [83.11 4.3 2.7] Apr. 3 Oct Do. '87' 20p 1.160 [83.11 4.3 3.7] Apr. 3 Oct Do. '87' 20p 1.160 [83.11 4.3 3.8] April 20p 10p 10p 10p 10p 10p 10p 10p 10p 10p 1	Jany Garante Heb. 36 - 5/80 B
LOANS Building Societies  9Aa 50c/Wwide 774pc 9.4.84 100 5 mis. 11.29/ 8.35 29My 23My 0p. 103pc 29.5.84 100 2 kg/s, 10.67 8.35 Apr 30 2 kg/s 2	y Ag Nissec. Placinic Corp. 3 531 (30.1) (32.40) — 4.3	2 0 2	9 Seand Offin. 50 138 20.6 10.79 5.6 0.365.4 0ct. 00.551.7 10.6 Cales 335 12.3 2.362.3 J.Zlb. 0ct. Jan 2502666 Elect 100 13 2.502.3 J.Zlb. 0.502.6 Jan 200.5 1.6 3.820.0 Acc.	July Frisher (A.) 50	Aug Halmes 10p. 263 21.12 (n.1.5) 4 1.255.4 (1.2
Alex Child Co. 10 Sept. 10 Sep	Thre Purchase, Leasing, etc.    Same   Season   Soc	159 58 22.11 209 0.3 5.0 Asg. 39 32.11 20.5 0.3 7.5 Asg. 39 32.11 20.5 0.3 7.5 Asg. 30.12.4 Asg. 30.7 20.4.8 10.9 40.7 20.5 20.5 30 4.8 10.9 40.7 20.5 20.5 30 4.8 10.9 40.7 20.5 20.5 30 4.8 10.5 4.8	Nov. System Delayairs 10p   740   1710   2.4   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5   0   0.5	July History I A.J. 10p 260 26.11 8.0 3.1 4.0.7 9 Provening the Form I I I I I I I I I I I I I I I I I I I	120 - 120 -
194n 24Dc Do. 10 2pc 8.10.86 1001;265.3 70.26 9.20 Mar 30Apr 5Nm Do. 104pc 5.11.84 1002;265.3 70.26 9.20 June 30Ap 5Nm Do. 104pc 26.12.84 1003;20.3 10.09 9.54 Det. Do. 104pc 26.12.84 1003; 10.45 9.48 Mar 28Ja 23Jy Do. 104pc 28.1.85 1003; 10.21 9.69 June 18F0 13Ap Do. 104pc 78.285 1004; 70.16 9.82	Mar Prov. Financia 172 123 9.0 2.5 7.5 7.2 January Botton Fest 174 175 175 175 175 175 175 175 175 175 175	0 5p 15-28 61 17.2 14.5 7.5 17.2 14.5 7.5 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2	[Therma Scientific . 123 - 12 3 2 2 73.9.3 304	Nov. Mest Trade Sip	Novikesware Aug. — 155 3.10 6.28 2.6 4.113.4 Novikesware Aug. — 155 3.10 6.28.2.5 4.113.4 Novikesware Aug. — 156 3.10 6.28.2.5 4.113.4 Novikesware LiJ. — 158 26.2.5 3.6 4 4.9 4.113.4 Novikesware Library & Ind. — 150 4.7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 Jan 3 JulylAgric, Mt. 5pc '59-89 77   7.72   0.60   11.24   3Mar 7 SelMet, Wtr. 3pc '8'	BEERS, WINES AND January (Castle 15.1) SPIRITS January (Castle 16.6) Oct. Apr. (Charth	100 24 13.2 11.5 6.2 1.0 5.8 3 0.5 10.0 7.7 14.2 Mg 13.3 11.0 93.5 24 6 63.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Declute 1 10 184 3.10 105.07.21 3.54.8 May 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Sept Part Food 102 45 30.11 45.0.21 4.575.3 Nov	Continue
Financial Sept. 11Jan 11Jby Do. 11pc Urs. (n. 98.) 11Jby Urs. (n. 98.) 11Jan 11Jby Do. 11pc Urs. (n. 98.) 11Jan 11Jby Do.	Mar.lAffied-Lyons	12   73   16   3.5   6.5   6.5   0	Oct Wiff earle Fig 100 338 . [13.7] 15.11.30 2.21.9.9 Mg. lu 5	Aug   0.75   0.76   0.76   0.75   0.76   0.7	13 NG Instantives 3 25 25 0.1 8.4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
14Mar 14Sept Do. 129pc Un. Iz. 1992.  14Mar 14Sept Do. 129pc Un. Iz. 1992.  150Jane 31Ded Do. 74pcA 189-92.  33Mar 30Sep Do. 74pcA 189-92.  33Mar 30Sep Do. 74pcA 191-94	JulyBorder Brew's 25 14.11 55.3 1.8 3.2 2.5 6 Mar. Oct District Top Feb. Brown 1 Matthew's 256 12.17 7.42 2.4 4.5 11.5 June Box (Elis & God) JulyBox (Hory & Brew) 53 20.11 2.43 7.6 (0.0) 11.4 Nos June Empire Store Martburner(H.P.15p 200 38.17 44.3 4.2 2.44 1.5 April Oct District Marthew) 390426.3 70.0 3.1 3.772.7 June JulyBox (Hory & Martburner) Br. (Hotal) 278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Marthew 278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 4 18.5 1 Mar. Oct District Martham 1.278 12.3 8.4 1.8 1 Mar. Oct District Martham 1.2 8.4 18.5 1	10e 283 500 1 10 09 5.1 2 1 10.2 50 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.71 10.0 65 12.1 2.75 78 6.75	Oct la 1 ind. Pipts. 28 11.4 B - 4210.3 Land local land	or Seuicrel H'n 12lgs . 5 5.9 . 0.75 ♦ 2.4 ♦ July	US-lizarisons Bourne 315 10.12 5.0 7.1 2.359.8 James Lods. 100 32 78.11 11.25 1.5 5.617.5 Marketis & Carell 58 25.4 Q401 0 3.8 0 James & Carell 58 25.4 Q401 0 3.8 0
Interest   Stack   Price   Last   Die 1/4   Red.   Feb Aug.	Oct Obsilers 500	09 156 FAI2 4,97 2.1 4611.7 May 180 118 119 119 119 119 119 118 119 119 119	Royladord Group 150 3.10 56.07 2.1 5.610.6 Apr. Apr. Allen W.G. 98.81 - 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7	end Traces 6	Submare & Jungman   Sp.   Sp
13a   13a   13a   15a	Aug   Intergration   158   16 9   43   6 24   6 May   Novigent   5 R 1   1   1   2   2   4   1   1   1   1   1   1   1   1   1	76 27.1 14.5 2.0 2.5 6.3 Dec. 25.2 1.0 6.5 Dec. 25.2 1.0 0.7 14 a control of the	Da 900000 WROP  1913   167 0.5 7.5 mg.	OTELS AND CATERERS	Unification Into
31My 30Nodhydro Quebec 150ctu 20   2285 12.3   15   12 0s   30Mo 310cci (cetard 6 p. 83-86	Jun   Hinghi of Dist.   20p   112   14   1   3.2   2   4.114.7   Apr.   Oct. Geller (4.21.1   Apr.   Dist.   20p   4.0   6	7 38-26-3 0.75 - 28 - 30-3 0.75 - 28 - 30-3 0.75 - 28 - 30-3 0.75 - 28 - 30-3 0.75 - 28 - 30-3 0.75 -	DEC. Searford 100 10 11.01 15 1.1 7.1 6.4 Dec. Selevano Misso 165 780 15 15.2 https://doi.org/10.1011/	me (be very Hote)	10   10   10   10   10   10   10   10
JOLUME 310ed Do. 6pc 183-88	Sept. Winstbread 'A'	09. 2442001 L48 0.9 8 8 18.1 409 109 27 16.10 15.13 7.9136 16.0 8 18.1 109 274 10.10 5.5 2.2 2.919.7 19.1 19.1 19.1 19.1 19.1 19.1 19.	Dec.   Blackwayd (Lodge   16  28  26  20  20  20  20  20  20  20  20  20  20	OTELS AND CATERERS  July 18  Nov. Ag.  July 18  Jul	2. Contino & Mintrd
	· ·			DC AND	414 07101 75 4 1 52 4



هكذا صفالتصل

Financial Times Monday April 9 1964

\*\*MODES RIAL—Montaned MONTANED MONTANE Financial Times Monday April 9 1984 INDUSTRIALS—Continued

LEISURE—Continued

Blookenis Stack Price and Met Cow Servi Price

Blookenis Stack Price Stack Price and Met Cow Servi Price

Blookenis Stack Price Stack Pri 37 PROPERTY—Continued INVESTMENT TRUSTS-Cont. OIL AND GAS—Continued Paid Stack Price at 1 Ret Cur Gra Biridends Price III Bir Yild Price III Ret Cyrr Gra Pre Apr. Apr. Freit Stott. Am. Apr. Apr. Sept. Apr. Freits Stott. Am. Apr. Apr. Apr. Freits Stott. Am. Apr. Apr. Apr. Freits Stott. Am. Apr. Apr. Sept. Freining American. On 700 Critical 1999.

List. Sept. Freining American. Apr. Oct. Freining Emergene. Dec. July Fleming Fare Eastern Agr. Oct. Freining Fare Eastern Agr. Oct. Freining Fare Eastern Agr. Oct. Freining Jeanness. Apr. How. Apr. Freining Jeanness. Apr. Bot. Sept. Heming Dresson. Tst. Feb. Sept. Freining Dresson. Tst. July Fleming Tech. Iss. July Fleming Freining. Apr. Sept. Mar. Apr. Sept. Geo. Apr. Sept. Co. June Fleming Tech. Iss. July Fleming Freining. Apr. Sept. Mar. Apr. Sept. Co. July Fleming Freining. Apr. Sept. Mar. Apr. Sept. Co. July Fleming Freining. Apr. Sept. Mar. Apr. Sept. Co. July Fleming Freining. Apr. Sept. Mar. Apr. Sept. Co. July Fleming Freining. Apr. Sept. Mar. Apr. Sept. Co. July Fleming Freining. Apr. Sept. Mar. Apr. Sept. Co. July Fleming Freining. Apr. Sept. Mar. Apr. Sept. Co. July Fleming Freining. Apr. Sept. Mar. Apr. Sept. or more difference it calculated on "mil" bistribution. Covers are based on "maximum" distribution; this compares great dividend crists to profit effect statement, excluding exceptional profusitions to be including estimated relient of oilsettable ACT, virilos are based on indide prices, are eross, adjusted to ACT of 30 per cent and allow for value of declared obstribution and rights.

"Tap Stock".

"Any Stock".

"High and Lows marked thus have been adjusted to 4llow for rights issues for cach.

Interim since increased or resumed.

Interim since increased or resumed.

Interim since increased or presented.

Tabeline to non-explorition application.

Figures or report awaited.

Not officially UR instead dealings permitted under Rule 16.3141ta).

USM; not listed on Stock Eachange and company not subjected to same degree of regulation or listed securities.

Dealt in under Pule 16.313.

Price at line to its superison.

Indicated dividend after pending scrip and/or rights issue; Cover relotes to previous devidend or forecast.

Merger bid or reorganishor in progress.

Not comparable.

Same mile im: reduced final and/or reduced earnings indicated.

Foreast dividend; cover or earnings updated by latest anterim statement.

Cover allows for bonversion of shares not now ranking for dividends or ranking only for restincted dividend.

Cover olses not sliden for shares which may also rank for dividends or ranking only for restincted dividend.

Cover olses not sliden for shares which may also rank for dividends at a truthe date. No PiE ratio usually provided.

No par value.

8.Fr. Behgian Francs, Fr. French Francs, Ef. Verid based on assumption Ireasing Bell Oate states unchanged until maturity of stock, a Tax line. If pure to based on prospectus or operations are part of capital, cover based on dividend and yield. Assumed dividend and yield he sassumed individend and yield he sassumed providend and yield a festions of particular and predictions are part of capital, to the part of the providend and yield based on prospectus or Finance, Land, etc

Giridands

Stack

Price | Last | Brit | Cw | Gr's | Price |

- Lavingsorth 100 -- J | Zr | - 1 | 1.1 | 2.2 | 0.6 |

- Apr Octable in Hume | Stack | Price | Last | Brit |

- Apr Octable in Hume | Stack | MINES Finance, Land, etc Central Rand Far West Rand ERANG

E101-10-12 10770cl 1.3 | ±
E431-30.12 10590cl 1.6 | 8.0
309 | 4.7 | 0.10cl 3.5 | 1.9
E165-30.19 0200cl 2.7 7.1
E265-30.11 0295cl 1.4 | 6.3
E10 | 112 | 0.40cl 2.1 | 303 | 30.1 | 0.32/5cl 1.0 | 6.3
E577-30.17 | 0.76cl 1.7 7.8
E265-30.3 | 0.30cl 2.6 | 6.2
E264 | 13.2 | 0.39cl 1.6 | 5.3
E257-30.17 | 0.76cl 1.7 7.8
E401-30.2 | 0.39cl 1.7 7.8
E401-30.3 | 0.39cl 1.7 7.8
E401-30.3 | 0.39cl 1.7 7.8
E401-30.3 | 0.39cl 1.3 | 1.4
E457 | 30.1 | 0.50cl 1.7 7.8
E401-30.3 | 0.39cl 1.3 | 6.4
E431-31.2 | 0.425cl 2.2 | 5.8
930 | 16.1 | 0.128cl 1.0 | 8.1 REGIONAL AND IRISH STOCKS ection of Degronal and Irrsh stocks, the latter being quoted in Irish currency. O.F.S.

775 | 13.2 | 1050d 1.0 | 3.8 |
527 | 521 | 10455d 2.4 | 9.2 |
528 | 521 | 0455d 2.4 | 9.2 |
528 | 521 | 0455d 2.4 | 9.2 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 521 |
525 | 521 | 525 | 525 |
525 | 521 | 525 | 525 |
525 | 521 | 525 | 525 |
525 | 521 | 525 | 525 |
525 | 521 | 525 | 525 |
525 | 521 | 525 | 525 |
525 | 521 | 525 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 521 | 525 |
525 | 525 | 525 |
52 OPTIONS 3-month call rates Finance OIL AND GAS Diamond and Platinum Maylanglo-Am inv 50c ... | 565 | 31.1.4 | 0590d | 2.3 | 5.2 | 0010b Beers 01.5c ... | 565 | 31.1.4 | 040d | 6 | 9.2 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.5 | 4.4 | 4.4 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4. A selection of Options traded is given on the Lundon Stock Exchange Report page. "Recent Issuos" and "Rights" Page 22 This service is available to every Company dealt in on Stock Exchanges throughout the United Kingdom for a fee of £700 per annum for each security.

CHICAGO

FINANCIAL FUTURES

# CURRENCIES, MONEY and CAPITAL MARKETS



Den Danske Bank

U.S. \$40,000,000 **Subordinated Floating** Rate Notes due 1990

In accordance with the provisions of the Notes, notice is hereby given that the rate of interest for the six months, 9th April, 1984 to 9th October, 1984 has been fixed at 111/2 per cent per annum and that the coupon amount payable on coupon No. 4 will be U.S. \$14,614-58.



The Sumitomo Bank, Limited



U.S. \$350,000,000 New Zealand

FLOATING RATE CAPITAL NOTES **DUE 1987** 

For the six months 9th April, 1984 to 9th October, 1984. In accordance with the provisions of the Notes. notice is horeby given that the rate of interest has been fixed at 11% sper cent end that the interest payable on the relevant interest payment date, 9th October, 1984 against Coupon No 5 will be U.S. \$581.41.

# Today's Rates 93/4%-103/4%

3i Term Deposits

Deposits of £1,000-£50,000 accepted for fixed turms of 3-10 years. Interest pai half-pearly. Rates for deposits received not later than 20.4.84 are fixed for the

Terms (years) 3 4	5	6	7	·5	9	10
Interest % 9% 10	юч	1012	10 %	104	10%	10¾

ties to and further information from the Treasurer Investors in Industry
up plc, 91 Waterloo Road, London SE 18XI 101-926 7822 Ext. 36X1
INVESTORS
UN TO Hank of England, a. c Investors in Industry Group plc.
INVESTORS

**FOREIGN EXCHANGES** 

# Interest rates support dollar

BY COLIN MILLHAM

The firmness of U.S. interest rates supported the dollar on tha foreign exchanges last week, although dealers in Europe and the U.S. were somewhat at odds over the implications of high interest rates for the U.S.

Apart from the interest rate factor there was little else to stimulate the market during a stimulate the market during a fairly quiet week. Economic statistics were much as expected, with weekly U.S. MI money supply rising by \$2.2bn, and March unemployment remaining in line with the February rate of 7.5 per cent. This underlined the strong growth in the U.S. economy recently, since it compares with figures of 8 per cent in December.

It was also regarded as a

Belgian Franc ...
Ognish Krone ...
Garman O-Mark
French Frenc ...
Outch Guildar ...
Irish Punt .....
Italian Lira .....

EMS EUROPEAN CURRENCY UNIT RATES

45.6056 8.19839 2.23108 5.86459 2.51654

THE POUND SPOT AND FORWARD

OTHER CURRENCIES

+1.57 +0.58 -0.48 -0.18 -0.37 +0.47 -1.67

33,55-33,58 Austris .... 1,0650-1,0665 Beiglum ... 1,348-1,355 Usamark...

It is something of a most point as to how much mileage the dollar can gain out of the rising trend in U.S. interest rates

however, and there were signs on Friday that the currency may find it hard to consolidate the gains of last week A level of DM 2.63 is regarded as an important cheat resistance level, and after the prime rate news.
New York dealers pushed the
dollar well above this level, but
there was no follow through in possible sign the Federal there was no follow through in Reserve would further tighten its the Far East, and Europe soon

+1.49 +0.50 -0.56 -0.23 -0.45 +0.39 -1.67

±1.5447 ±1.5425 ±1.0642 ±1.4952 ±1.4964

Note Rates

26,20-26,50 78,80-79,60 16,67-13,81 11,46-11,67 5,721<sub>2</sub>-3,761<sub>2</sub> 2296-2380 519-524 4,20-4,24

monetary stance by raising the discount rate. Thursday's increase in bank prime lending fundamental importance of the rates was also seen as a possible herald of a rise in the discount rate, although only a week ago any thoughts on this score had in a speech on Thursday in a speech on Thursd

weighted basis touched a 13-month low, largely, as a result of nervousness about the miners' strike. The growing differential between UK and U.S. interest rates also seemed a depressing factor, but dealors suggested that London rates remain critical

attractive when compared with most other major centres, given the relatively good performance of the British economy of late The pound's decline against the dollar was therefore not reflected in similar falls against other currences and sterling closed the week roughly unchanged against the D-mark.

THE CONTROL OF THE PROPERTY OF

LONDON

£ in New York

FORWARD RATES AGAINST STERLING

BANK OF ENGLAND TREASURY BILL TENDER

						lı
	April 6	March 30		April 8	March 80	ľ
Bills us offer Total of	£100m		Top Accepted rate of discount.	8.3830g	6,3830%	
applications Total allocated Minimum	2100m	£100m	rate of discount	8.5820%	8,5820% 8,56%	ŀ
accepted bid Notment at			Amoust on offer at sext tender		£100m	j

THE DOLLAR SPOT AND FORWARD

April 0	Day's .	Close	One month	% D.S.	Three	
						P:
UK†	1.4185-1.4310	1.4280-1.4290	0.23-0.28c dis	-2.14	0.73-0.78dis	-2
Imlendt	1.1620-1.1696	1.1660-1.1670	0.18-0.14c pm	1.65	0.57-0.49 pr	m 1.4
Cenade	1,2800-1,2820	1.2800-1.2905	0.06-0.04c pm	8.47	0.09-0.07 pt	m. 10.2
Nethind.	2.9510-2.9700	2.9570-2.9590	1.16-1.11c pm	4.61	3.47-3.42 pt	a 4.1
<b>Belglum</b>	53.50-63.80	53.51-53.53	2-31-c dis	-0.61	9-11 dis	-0.7
Canmark	9,6000-9,6625	9,6250-9,6300	a-tore pm		1'-1 pm	0.
W. Ger.		2.6215-2.6225	1.16-1.11pf pm	E 30	3.38-3.33 m	m 6.
Portugal	133.00-134.to		75-225c dis			
	150.15-150.60	150.25-150.35			275-700dls	
6pain			60-60c dis		200-220 dis	
izaly	1622-1630	1623-1624	74-74 line die	-5.53	217-227, dis	-54
Norway	7.5550-7.5825	7.5625-7.5676	1.55-1.85ore dis	-2.69	4.20-4.50dfs	-23
France	8.0475-8.1126	8.0675-8.0725	1.00-1.30c dis	-1.76	4.90-E_50dis	-2.1
Sweden	7.7825-7.8275	7.7850-7.7900	0.70-0.20ore pm	0.69	1.15-0.65 p	m 0.4
Japas	225,10-225,90	225.25-225.35	0.88-0.84y pre		2.60-2.55 pt	4
Austria	18.39-18.52	18.43-18.44	7,20-6.80gro pm	4 66	212-192 po	44
Gwitz.		2.1745-2.1755	1.33-1.28c pm	2 20	3.83-3.78 p	
1	Belgian rate la	for convertible	Iranes, Financia	franc !	65.40-65.45	
† UK	and Imland a	re quoted in U	J.6. currency. A	braward.	DISTRIBUTE .	md.
· disc	ounts apply to	the U.S. dolla	er and not to th	s indivi	dual cucren	EV.

URRENCY	MOVE	<i>i</i> ents	CURREN	<b>ICY</b>	RATE	S
April 6		Morgan Guaranty	April 6	Bank rate %	Special Drawing Rights	European Curtency Unit
	Index	Changas%	Sterling		0.743392	0.596022
terling	79.8	-11.1	Canadians	816	1.05807	0.848318 1.08737
S. dollar	127.8 88.5	+18.2	Austria Sch .	414	19,6965	15,6854
ustrian schilling	117.6	+8-8	Belgian Fr.		56.8951 10.2141	45,6057 8,18639
elgian franc	79.4	11.0 5.8	D'mark	4	2.78262	8.23106
eutschs mark	127.3	+8.0	Guilder French Fr		3.13824 8.66455	2,51654 5,85459
wiss franc	148.2 116.2	+11.4	Life	16	1725.53	1380,00
rench franc	67.1	-14.7	Norwen Kr.		238,859 8,01647	191,296 6,43988
78	48.9 169.5	÷12.5 +15.8	Spanish Pta-	-	159,156	127,604
			Swedish Kr.		8.25713 2.30605	6.63216 1.84848
lorgee Guaranty 380-1982 — 100. Bas		everage	Greek Dr'ch	2012	110.285	88,5947
TO TOUR DESIGNATION OF THE PARTY OF THE PART	TANK LAND	mnev	ecereno d		a Andi E.	4 14 1

U.S. Dollar

0.381 4,436

0.338

0,781

11.64

0,886

8.050 4.908

Close High Live Prev 9000,008 1 98.00 88.02 82.96 86.92 1 86.55 88.95 88.47 88.46 3000 1 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 87.90 1 89.90 1 8 63.28 U.S. TREASURY BILLS (ILMA) of 100%

Close High Low Prev
108-22 108-22 108-16 208-18
108-22 108-22 507-30 107-31
107-15 107-15 107-12 107-12
108-29 108-20 108-28
1\_857 (2.856)
us day's upon int 4.806 (4.807)
quota (close cash price of Tressury 2003 less equivalent of near Submes contract) 32 to CERT. DEPOSIT (IMM) Sim po TERLING £25,000 \$ per £ STERLING (IMM) Se per C ENMA (CBT) 8% \$100,000 32ads of open let 132 (132)

Low Prev 0.4465 0.4495 0.4518 0.4536

JAPANESE YEN Y12 Em \$ per Y100

ONDON	Apr.	change	NEW YORK	Apr. 0	ohun
ase rates	81g-814	Unch'd	Prime rates	1.8	+ 74
day Interbank min interbank	64	-	Federal funds 3 Mth. Treasury Bills	20,3	-80
reasury Bill Tende	r 8.3820	1+0.009	O Mile Treasury Bills	9.80	-00
and 1 Bills	818 818	Unch'd	A Mth. C D	10.46	-0.0
land 2 Bills	F14	Unch d	I PRODUCTURE		
Mith. resettly 65	ts 8	. :	Lombard.	8.50	Unch
Mith. Bank Bills	830	100	One John Interbenk Three month	5.626	1266
Mtb. Bank Bills	. eu	note d	PARIS		1
OKYO	5.21875	-0.125	Intervention Rate	12	Unch
ne month Bills bree month Bills		Unch'd	One Mus. Interbank	12,5526	Unreb
RUSSELS			WILAN	12.Doxo.	0.80
ne month	117a	Unch'd	One month	176	-10
hree month	1178	Unoh'd	Three month	177	<u> </u>
MISTERDAM!			DUBLIN	1	ľ .
no month bree month	6.4	12.	One month	1279 .	-14

618.7 7200

13.13 13.13

3,568

1,823

2,315 5,530

# Trade Development Bank Holding S.A. Luxembourg

NOTICE IS HEREBY GIVEN that the Annual General Meeting of Shareholders of Trade Development Bank Holding S.A. (TDB Holding) will be held at the registered office of the Company, 13, Boulevard de la Foire, Luxembourg at 2:30 p.m. on 8th May, 1984 for the purpose of considering and voting on the following matters:

1. Approval of the Chairman's Statement.

2. Approval of the Statutory Auditors' report and the unconsolidated financial statements of the Com-

pany for the year ended 31st December, 1983.

3. Discharge of the Directors and of the Statutory Auditors concerning their duties relative to the year ended 31st December, 1983. Distribution of a dividend of US\$ 0.75 per share and the carrying forward of the balance of the profit.
 Election of the Board of Directors for 1984. Standing for election: Messrs. Edmond J. Safra, François

Lugeon, George B. Balamut, Jean Hoss, Roger Junod, C. G. Rodney Leach, John A. Waage and Walter H. Weiner.

6. Election of the Statutory Auditors for 1984. 7. Approval of the consolidated financial statements of the Company for the year ended 31st December,

8. Amendment of the corporate name, and consequential amendment of Article One of the Articles of Incorporation.

By Order of the Board, Edmond J. Safra Chairman

## NOTES:

Subject to the relevant resolution being approved, the dividend will be payable on 1st June, 1984: (i) in respect of registered shares to shareholders on the register as at 1st May, 1984 and (ii) in respect of bearer shares against surrender of Coupon No. 15 to any of the Paying Agents listed below. Any shareholder whose shares are in bearer form and whn

wishes in attend the Annual General Meeting in person must produce a depositary receipt or present his share certificates to gain admission. If he wishes to be represented at the meeting, he must lodge a proxy duly completed together with a depositary receipt at the registered office of TDB Holding at 13, Boulevard de la Foire, Luxembourg, not later than 7th May, 1984 at 5:00 p.m. The shareholder may obtain the depositary receipt and, if required, the form of proxy from any of the banks listed below by lodging his share certificates at their office or by arranging for the bank by whom his certificates are held to notify any of the banks listed that shares are so held.

Any shareholder whose shares are registered will receive a notice of the Annual General Meeting at his address on the regis-ter together with a form of proxy for use at the meeting. The

proxy should be lodged at TDB Holding's office to accordance The remittance of the form of proxy will not preclude a

shareholder from attending in person and voting at the meeting if The resolutions concerning Items 1 to 7 of the Agenda may he passed by a simple majority provided that no single share-holder or proxy may cast votes in respect of more than one fifth of the issued share capital or more than two fifths of all shares repre-

sented at the meeting.

The resolution concerning Item 8 of the Agenda requires a majority of at least two thirds of the votes of the shareholders present or represented, provided there is a quorum of at least fifty percent of issued share capital. There is no limitation as to the number of shares for which any shareholder or proxy may cast

Copies of this notice and of the Annual Report, including the financial statements of TD8 Holding for the year ended 31st December, 1985, may be obtained at its registered office, and from any of the banks at the following addresses:

\* Manufacturers Hanover Limited, 8 Princes Street, London EC2P 2EN. \*Manufacturers Hanover Limited, 8 Princes Street, London EC2P 2EN.

\*Banque Internationale à Luxembourg S.A., 2, Boulevard Royal, Luxembourg.

\*Manufacturers Hanover Bank Belgium, 13, Rue de Ligne, 1000 Brussels.

\*Manufacturers Hanover Banque Nordique, 20, Rue de la Ville-l'Evéque, 75008 Paris.

\*Manufacturers Hanover Trust Company, 40 Wall Street, New York, N.Y. 10015.

\*Manufacturers Hanover Trust Company, Bockenheimer Landstr. 51/53, Frankfurt.

\*Republic National Bank of New York; 452 Fifth Avenue, New York, N.Y.10018.

Trade Development Bank, 25. Corso S. Gottardo, 6830 Chiasso, 1.

\*Trade Development Bank, 30 Monument Street, London EC3R 8LH.

Trade Development Bank, 30 Monument Street, London EC3R 8LH. Trade Development Bank (France) S.A., 20, Place Vendome, 75001 Paris. \*Trade Development Bank (Luxembourg) S.A., 34, Avenue de la Porte-Neuve, Luxembourg Trade Development Bank, 2, Place du Lac, 1204 Geneva.

\*Paying Agent of TDB Holding.

EURO-CURRENCY INTEREST RATES (Market closing rates)

- 1													
	Apr. 0	Sterling	U.S. Dollar	Ganadian Dollar	Dutch Guilder	Swise Franc	D-mark	French Franc	imian Lira	Belgin Copy.	n Franc Fin.	Yon	Danish Kroner
	Short term 7 days' notice	858-878 813-813 915-873	10%-10% 10%-10% 10%-10% 10%-107% 10%-11 11-114 11%-11%	912-10 012-10 10-5-10-5 10-2-10-5 10-3-11-5 11-3-11-4	81g-614 61g-614 61g-613 61g-613 61g-613 61g-613	214-214 214-214 315-515 515-515 315-4 415-415	514-576 514-576 576-568 514-514 512-576 614-676	1134-124 12-1214 1236-1256 1356-1376 1456-1478 1546-1556	16-18 184-174 1619-1656 1659-1679 1679-1714 1759-1818	104-114 106-116 114-124 114-12 114-12 114-12	111g-18 116g-117g 115g-117g 115g-117g 115g-117g 115g-12	518-516 518-516 618-618 618-614 618-614	104-103 1039-11 1058-114 1058-103 1058-113 1119-115
	Asian \$ (closin	o rates la Si	ngapore: Sh	ort-term 10%	10's per c	aut: savén d	aya 10-10	per cent; o	ne month 10%	-10° per ce	nt: three m	onths 10%-10	h per cent

3.075 35,79

3,705

6,305 15.08

1.701

Deuxche m'K | Japanese Yen French Fran

85,92 1000,

176.1 421.2

## MONEY MARKETS •

**EXCHANGE CROSS RATES** 

Pound St'rling

0.700

0,267 3,106

838,0 225,0

0,237

0,547

Apr. 5

Deutschemark Japanese Yen 1,000

Jutch Guilder Italian Ura 1 000

Canadian Dollar Balgian Franc 100

# Nervousness, but no panic

A degree of nervousness was evident on the London money market last week. There was no sign of panic, but the mood was illustrated by a widening of that yield curve, as demand increased for short term market instrumoots, whils interest rates on longer term money and paper rose. Day-to-day credit shortages were high, running in the region of £600m a day, and on each day the Bank of England offered early assistance. Conditions

being offered many times the rates, in contrast to the recent founds overnight rate, panily because of end of quarter factors, and the Federal Reserve the miners' strike added to give enough being the bearish mood.

The rise of 1 per cent to 12 per cent to 12 per cent in U.S. banks' prime in the last Federal Open Market lending gates came as little Sterling's fall to a 13-month in the cost of New York money also tended to concentrate minds on the steady rise in U.S. interest stantial pressure on the Federal target level of 10 per cent.

UK clearing banks' base lending rate 81-81 per cent (since March 15 and 16)

where somewhat distorted by the end of the financial year considerations for two of the

considerations for two of the largest discount houses. The houses like to run large books at such times, but the general trend in the market was to sell as many three-mouth (band 4) bills to the authorities as possible.

This has the benefit of not rolling forward shortages through repurchase agreements, as was so often the case last mouth. The unwinding of these agreements was the major factor between London and New York interest rates caused considerable concern in the market and resulted in the Bank of England.

FT LONDON INTERBANK FIXING

CONDON INTERBANK FIXING (11.00 a.m. April 6) 6 mombs U.S. dollar bid 11 1/8 offer 11 14

(he fluing rates are the arithmetic the Raing rates are the arithmetic means, recorded to the nearest one-stateanth, of the bid and offered rates for 510m questd by the market to two reference banks at 11 e.m. each working day. The banks are National Westminster Benk, Bask of Tokyo, Deutsche Bask, Banque Nationale de Paris and Morgan Guaranty Truet.

1,828 1,780

0,488 5,577

1.586 0.588

20.40 257.4

24.58

18.08 52.97

41,82 100,

MONEY RATES

Apr. 6	Frankfurt	Paris	Zurlah	Amet'dam	Tokyo	Milan	Brussois	Dubli
One month	6.50.5.65 8.6-5.7 6.65.5.80 5.75.6.90 5.85-6.00 6.5	121- 121-121- 121-101- 121-121- 121-121- 121-121-	11a-21a 54a-51 <u>a</u> 5 <del>4</del> 5 <sub>16</sub>	678-619 018-524 518-618 674-638	6.21875 6.21875 6.28125	167g-1774 167g-1774 177g-177g	11.7 213.18 124-10 113-13	1134-10 1846-16 1856-18 1876-18

LONDON MONEY RATES Discount Houses Deposit and BIII Rates

St. moritis 9.8% 9.6% 9.6% 9.6% 9.6% 9.6% 9.6% 9.6% 9.6								
	Local Auth, negotiable bonds			of .	SDR Linked Deposits	ECU Linked Deposits		
One month	914-9 914-9 914-9		8/6 Bu-9	10.55-10.55 16.5-10.7 16.7-10.6 16.65-11.05 11.15-11.55 11.4-11.6		91, 91, 91, 91, 91, 91, 91, 91,		

ECGO Fixed Rate Export Finance Scheme IV. Average Rate for Interpediod March. 7 to April. 3 1984. (Inclusive): 4.878 per trant. Local surhoused and Osance houses seven days notice, others seven days fixed. Final Houses Base Rate (published by the Finance Houses Association): 3° per from April 1. 1984. London and Georgien Clearing Bask Rates for tend 8°-5° per cant. London Bepoats Rate for sums at seven days notice 5°-5°. Cent. Treasury Bills: Average tender rates of discount \$,320 per Cent. Treasury Bills: Average tender rates of discount \$,320 per Cent. Continues of Tax Deposit (Series 6°). Ospoats of £100,000 and own held under seven three-log months of per cent one-three per cent. Scheme months 5° per cent three-log months 5° per cent stehling months 5° per cent insection.

3° per cent from April 5. Ospoats held under Series 4-5 9° per cent. Index 200. 18° cent. Index 200. 18

Ξ	= 8	10 OG	-	=
u ed	MONEY R	ATES		
eits.	NEW YORK		12	4
	Broken Joan rel Fed funds No Fed Interven	· ·	501	C '
	Transury Bills	o Pad Na ozany o	<b>9.</b> 1	•
erest Mies	Two months Three months She months One year	-in real line	9.6	ў. 9
ence cent	Treasury Bonds			.:
CRUC.	Two year Three year Four year		997 977	4

# Coil Coat

The merits of coil coating—the process which enables steel or aluminium strip to be bought already painted—are becoming more widely known, and expansion, already rapid, is accelerating. With so much at stake, the industry's leaders, particularly the paint makers, are engaged in a major battle for market shares

Knowledge of what coil coating actually is has been spreading as the industry has re-organised its marketing and this is likely to add further to present growth. Coil coaters and paint makers are now making sales approaches to pension funds, architects, building specifiers, and manufacturing industry to spread their gospel directly to increasingly more decision-makers.

That gospel is that it pays to use preceded steel and almminium for buildings and for making things, "Pre-coated," in fact, means "pre-finished."

The approach exhalic steel or

The people who buy coated strip then use it to make an increasing multiplicity of items. Chief among them are profiled claddings for the walls and roofs of huildings, but other familiar products made from pre-finished steel or aluminium include non-stick pots and pans, refrigerators, microwave ovens, The process enables steel or aluminium strip to be bought already painted. Such have been the advances in metallurgy and paint technology that the strip can be formed, bent, drawn seamed or put through most other industrial practices with refrigerators, microwave ovens, venetian blinds, caravans, elecstick. The coatings are usually pin head covers for bables' nappies, drainplpes, guttering, gas fires and garage doors.

out the coating being damaged.

The industry gets its name from the fact that the steel or aluminium strip leaves the mills where it is made rolled np into coils. Coil coaters then unroll the coils, paint them by run-ping them down a highly automated production line at con-siderable speed, and then roll them np again to be sold to manufacturers as coated coils.

The technology is complex, requiring considerable skill in pre-treatment of the metal to produce a clean surface to which

VIGOROUS GROWTH remains the main feature of the coil coating industry in Europe. Despite recession, sales in this high technology sector continue to burgeon and there are now signs of them accelerating with economic recovery.

Knowledge of what coil coating are usually applied by rollers and dried, or cured, in minutes by running the line through long ovens. The quality of the painting and the performance of the coated strip are monitored continuously, with frequent testing in on-site laboratories to ensure in on-site laboratories to ensure that the finished material will perform in the way the coaters say it will.

The chief advantage offered

the chief advantage offered to manufacturing industry is that paint shops are no longer needed at the end of production lines. Not only is this cheaper because it means employing few people, but there are usually considerable savings

on energy, health and safety

precautions, and effluent and emission control.

On top of that, people who

have switched have reported figures for total sales of coated from 1978 to 1982. This analyintangible benefits from being coils, which showed year-onmore easily able to keep factories clean.

figures for total sales of coated from 1978 to 1982. This analycoils, which showed year-onsis shows the hullding sector's
year gains of 16.3 per cent in rate of usage up by 75 per cent,
the first quarter of 1983 to industry's up by 69 per cent,

tories clean.
Such savings have undoubtedly helped coil coating to continue to grow throughout the recession. Indeed, recession inspired many manufacturers to look for cheaper, more efficient ways of making their goods and was therefore probably more of a help than a hindrance.

The gospel spreads

SURVEY BY IAN HAMILTON FAZEY

Without the recession many manufacturers might have con-tinued to say: "Why change when we're doing all right as

when we're doing all right as we are?"

The European industry's statistics for 1983 are still being collated but are expected to show sharp rises in several sectors as economic recovery found a firmer foothold during the year. One very encouraging general sign was a 102 per cent increase in stockholding of coated coils in

stockholding of coated coils in the first quarter alone. The new

level was maintained in the second quarter.

only 3.2 per cent for coated steel coils in the whole of 1982,

and fell by 12 per cent in the much smaller aluminium sector,

the early returns for 1983 have

to represent a considerable in-

This is reflected in the

crease in general confidence.

Since stockholding grew by

ngures for total sales or coaten coils, which showed year-on-year gains of 16.3 per cent in the first quarter of 1983 to accelerate to a figure of 20.4 per cent in the second, a growth which has pleasantly surprised even the optimists who now run the Brussels headquarters of the European Coil Coating Associa-

tion. Even 1982, the last for which

the worst year of the recession

for the industry, showed good growth for steel.

from world price rises that forced up the cost of aluminium

coils by 50 per cent struggled to only 1.5 per cent growth overall, but the wonder there is that its use grew at all, which must be another sort of thirty at the control of the control o

tribute to coil coating's

Steel, however, put on 10.1 per cent across Europe, and British Steel, Europe's higgest coil coater, did as well as any-

one. Sales of coated coils to the huilding sector were up 7.3 per cent and to industry they rose by a staggering 16 per cent. Exports outside Europe went up

hy 15 per cent.

And this was a bad year, as

Aluminium, which suffered

sis shows the hullding sector's rate of usage up hy 75 per cent, industry's up by 69 per cent, and stockholding (an important commercial activity by which several companies make substantial profits) np 79 per cent. Exports, which peaked in 1979, and then dipped in 1980. climbed back steadily to 1978

A similar pattern emerges for coated aluminium, although the greater expense of the metal leads to lower sales volumes and slower growth.

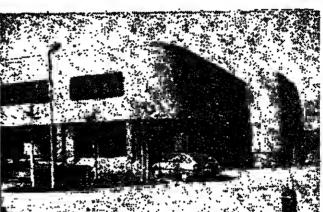
Never the less, the rate of its
use in huilding products was
up 32 per cent in 1982 compared with 1978, with industry taking 54 per cent more. Ex-ports, however, often involving large building contracts in the Middle East were up 60 per

But although Europe's main coil coaters compete with each other in export markets outside their home continent, there is relatively little international competition within Europe itself. This is inevitable when the biggest coaters are steel-makers, each of them firmly rooted in a national domestic

Competition is possible, theoretically, on finished goods such as coated strip but can only be described as marginal when looked at dispassionately in marketing terms. A nationalised market leader, for example, might have a market share in excess of 75 per cent.
The true competition in coil



Above: Europe's newest coil coater, Mr Brian Proctor, at his Cladcolour line at Newport, South Wales. The company started operations last week. Will it be a thorn in the side of British Steel? See Page II. Below: corners do not have to be round as this design in coil coated steel from the Dutch company Hunter Douglas proves



Swedish paintmaker, Becker-which has bought technically adranced subsidiaries in Britain. France and Germany and is on the lookout for more—leads in terms of share of the coil coat-

ing market.

But ICI, which has also bought technically advanced subsidiaries in Britain, France and Germany, is fighting hard to catch up and is likely to hring an increasing amount of nnique experience into the technology from its Australian subsidiary,

Dulux. Meanwhile, Courtauld's subsidiary, International Paint, is working hard to make an impact in coil coating and, like ICI, is developing new coating it hopes will expand the total market. International has already made its mark by developing the paint can be seen when the growth coating markets is among paint for Hotpoint to make Iced Dia-of the use of coated coil is suppliers and here things are in mond refrigerators from coil looked at on a five-year basis a state of considerable flux. The coated British Steel.

Crown Paints **European Coil Coaters** Association The international scene VI Enropean paint companies bave looked at the British market

looked at the British market and decided that they must carry the fight beyond their traditional boundaries. Thus Sigma Coating, the paints subsidiary of the Belgium-hased Petrofina group, has started a push in Britain in coil coating. The French paint company Ripolin-Duco is also making a determined assault on the British coil coatings market. It intends to distribute through Hadfields Industrial Coatings. intends to distribute through Hadfields Industrial Coatings, part of the privately-owned Kalon group. Ripolin-Duco has a licence for the U.S.'s leading PVC coating system, though it will face an nphill hattle to get orders from British Steel, which developed its own formulation for such coatings and is lation for such coatings and is unlikely to change.
As the European and world economies recover from reces-

paintmakers are looking to high-technology fluorocarbon paints as the most important factor for fast growth. The building industry, which uses more than 50 per cent of coil coated products, holds the key to how this market is going to

CONTENTS

**British Steel** Cladeolour

Custom Coil

Glossary

Alcan and Euramax

International Paints

The paint makers

Fluorocarbon coatings are practically indestructible and need he applied only thinly, enabling coil coating lines to be run faster and more efficiently. Durability of colours is another asset, especially in prestigious buildings,

That is why people who invest in such huildings, such as pension fund managers, are prime targets for the industry's marketeers, while exciting design possibilities are being sold to architects. There is no sign that growth

# The British Steel Corporation is a world leader in coated steels; and BSC This is the BSC coated steel range: fabricating applications.

scientists pioneered developments in organic coated steels.

BSC Colorcoat Plastisol is the U.K's most widely-used steel cladding material. BSC Colorcoat Pvf2 is specified worldwide for cladding in difficult or aggressive environments. And the BSC Colorcoat range also includes coatings suitable for domestic appliances and other demanding

BSC Stelvetite. A vinyl-laminated steel with a vast range of patterns and colours, including attractive woodgrain finishes and subtle embosses.

BSC Zintec. The electro-zinc coated steel that adds extra corrosion resistance in many applications, including domestic appliances, cars and trucks.

BSC Galvatite. The hot-dip galvanised steel that offers the widest choice of corrosion-resistant steels, including ductile and tensile grades.

BSC Terne. The tin/lead coated steel with wide applications in the automotive, electrical and component industries.

For detailed information on our range of coated steels, contact Sales Promotion Department, BSC Strip Mill Products, PO Box 10, Newport, Gwent NPT 0XN. Tel; (0633) 272281. Telex: 497601. <u>Coater</u>

of many COLOURS

From plain colours to stripes and patterns.

from plain coil to slit and embossed coil or

sheet, Euramax has the capability in Europe.

In the U.K. the new Corby complex offers all

the one or two coat paint systems in current

In Holland the wide line offers painted coil up

'Decorcoat' line paints stripes and patterns

use, with one side or two side coated

to 2540 mm wide, and the speciality

to individual specifications.

application.

in the Finish YOU require

Both plants have embossing, slitting

make Euramax the comprehensive

Contact us NOW for more details.

and sheet.

small quantities.

and fabrication operations, offering coil

European coil coater, for both large and

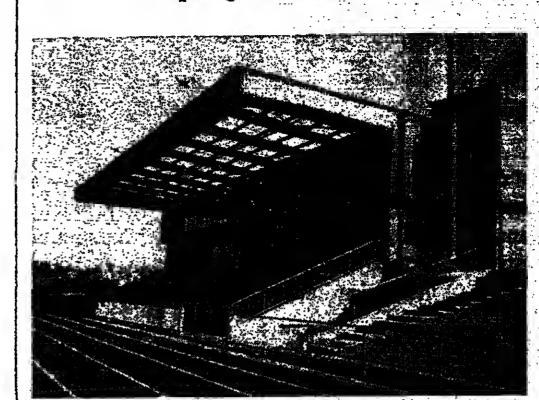
**ALUMINIUM LIMITED** 

Versatility, flexibility and customer service

EURAMAX

# COIL COATINGS II

On this page and the next, a look at the fortunes of five coaters competing for a share of a fast-growing market



## **British Steel**

# Europe's frontrunner

BRITISH STEEL is expecting outside Europe. its coil coating busines to grow by at least 10 per cent in 1984 to push output past 200,000 tonnes of coated metal.

Last year's figures missed that landmark by about 10,000 tonnes, but since that represented full espacity on two-shift working, anything over it is a

working, anything over it is a significant development. With capacity available for about 300,000 tonnes a year, Britsh Steel can claim to be Europe's biggest coil coater already. However, even this is not expected to be enough: £25m is to be spent at Shotton, in North Wales, to open another line in 1986 that will expand the range of products and applications even further. These, of course, may well be

These, of course, may well be yet more signs that the UK economy is really beginning to recover from recession, but British Steel's growing sales of coated coils also reflect considerable export successes—up by more than 20 per. cent to account for two-fifths of out-

It is, however, in the home market that British Steel dominates and it is a tribute that it does so with products in Europe with that length of now, Japan, for car components, that in some cases cost 20 per experience," Mr Burling says. It holds the British licence for this home markets than their counterparts in Europe.

For British Steel's approach from the outset was market oriented, asking what the pro-ducts were worth to customers rather than grossing up added value on raw material costs and hen superimposing a profit

The latter approach was favoured by steelmakers in Germany, France and Sweden, betraying the production orien-tation typical of the industry. Now, says Mr Peter Burling, British Steel's commercial manager for special products "the Continentais have at last realised that they have missed this trick and are trying to raise their home prices."

each other on prices for exports ment of colour and hexture.

one willing to work hard enough to break in. There is some evi-dence, indeed, that one Belgian company has realised that steel import quotas do not apply to finished goods and is undercut-ting British Steel in British with o per cent lower prices.

And at British Steel Itself

And at British Steel Itself there is a little sensitivity about Cladcolour starting up just down the road from Mr Burling's office in Llanwern, Not a single tome is likely to be ceded, which could well mean flexibility on prices.

However, the U.S. owned H. H. Robertson has co-cristed with British Steel for years, buying its coils direct from Shot-

buying its coils direct from Shot-ton to coat at its Ellesmere Port factory. Robertson works on a total design concept, coating steel specifically for each building job, from the Centre Court roof at Wimbledon to complicated flouring systems for large

What British Steel can boast is more know-how than anyone else. Britain's steel industry has dominates and it is a tribute been in coll coating for more to its approach to coll coating than 25 years. There is no one

important long term, especially with people making large investment decisions in build-ings who want to be centain of availablisty of service from the supplier that will last as long as the building which could be 50 years.

## Promotion .

It is these people and their advisars to whom British Steel is now promoting hard. In Jamiary the corporation published an impressive cladding manual for a thetects and speci-flers, following up with audio-visual presentations around the country.

this trick and are trying to raise their home prices."

Why these price differentials have not mattered from a competitive point of view is that each country's steel industry has a virtual monopoly in its home market—would be competitors put British Steel's share at 78 per cent—though they all fight.

The manual is, quite literally, weighty, tipping the scales at nearly 51b. One reason for this is that it contains lots of little samples in plastic wallets of steel strip coated with plastically and fluorocarbon paints which are far superlor to colour cards in allowing true agrees.

Nevertheless, British Steel with technical data sheets and six vulnerable in British to anyone willing to work hard enough to break in. There is some evidence, indeed, that one Belgian spectacularly designed buildings and even the are enough to goad even the most placid architect into artis-

> .The corporation is employing staff to tour architects' offices updating the manual several

Mr Burling is also working hard at other markets, such as domestic appliances, office fur-niture, steel drums, and car and

Here, British Steel runs a product development centre at Shorton which studies problems of production engineering using pre-finished steel. "If the potential volume is big enough we will offer this as a service to enyone." Mr Burling says. This factudes consultancy by engineers and technical staff. and even the building of pro-

What the corporation has decided not to do is produce zincrometal, a zincrich corrosion resistant costing for steel used extensively in the U.S. and, duction unless a major car pro-ducer opts to use at Nissan's recent decision to use it in Japan may, however, be an omen here for when the company starts UK production.

What British Steet will be

producing is Galvalume and it is for this that the new line is being built at Shotton. This is steel coated with a 45:55 mix-ture of aluminium and zinc which has four times the corrosion resistance of gal-vanised steel and greater strength at the surface.

strength at the surface.

Mr Burling says: "This will given even better corrosion protection to buildings and will perform better in heat, such as in car exhausts. It will also be more fierable, so bend radii will be tighter. We should also be able to apply thinner coatings."

The prospects look good and are getting better for what is, for British Steel, a rare success story, even if a few competis story, even if a few competitors are now beginning to nibble around the feet of the giant.

Cladcolour

# Buyer turned supplier

coater started operations last week in a disused strip mill in British Steel's White-

efcald British Stee

The £1.6m investment is creating 30 new jobs immediately and he hopes to add a similar number even-tually to increase his work-force to 80.

The frony is that Cind-colours factory is an island strrounded by British Steel land within a British Steel perimeter frame. Mr Proctor did not tell the corporation exactly what he intended to do with the old mill but he did make sure that the sale agreement gave him per-manent rights of access.

## Opportunity

To compete with British Steel's main product, plant-sol coated claddings, Mr Proctor needed a paint supplior with no pitch to queer at British Steel. This has provided just the opportunity the Belgian paintmaker sub-sidiary of Petrofins, Signa Coatings, was looking for to get a tuehold in Britain.

Sigma's Mr John Cunninghant says that the company will be supplying Cladcolour with at least 70 per cent of its coefings. With any paint supplier's technical back-up critical to guaranteeing coll coating quality, the project without such support.

Mr Proctor's marketing strategy will not be to play David to British Steel's Goliath but to find a small, complementary niche. "Their minimum order is 10 tonnes, he says. "We shall go down as low as two. Our budget will be 7,000 tonnes in our first year, rising to 25,000 in

"We haven't got the capacity to be a real nuisance to them. But there has only been one general supplier all the time I've been in the industry since 1965. The market can take some flexibility. I'm not going to undercut British Steel: service, availability and reliabil-ity have always been more important in this bushess than price." Mr Proctor says. The final irony, of course, is the very staff Cladeolour will be coating—British Steel.

# Custom Coil Coaters

# Step-by-step approach pays off

SUCH IS the impact of Custom Coil Centers on its markets that the company, which operates from a small factory in the heart of the English Black Country, has seen turnover grow by an annual 20 per cent for each of the past three years.

Profitability has been main-tained throughout the reces-sion and the best testament to the company's confidence is its recent investment of \$250,000 in a new coil coat-

According to Mr Don Large, the managing director: "Our philosophy is to cover as many markets as we can. We don't sell on price, but delivery, service and quality. We can fill new orders in only four weeks and that has seen us supply small domestic appliances to Australia faster than their home producers."

As its name suggests, the company coats coil for specific requirements. It operates on narrower widths, making very many small items that most people take for granted, such as clock faces, ear instrument dials, film cassettes for Polaroid cameras, and bottle Some products are more

substantial, such as bakewas and holloware and suspended ceilings. There are architec-tural products for the build-ing industry and small domes-tic appliances which need specialised heat resistant contings, such as sandwich toasters

"With some of these products we seem to have cornered the UK market," says Mr Large, who is widely known in the automotive ludustry for having previously managed Jensen Cars — in Custom Coil Coaters' home town of West Bromwich—and the Linwood Plant for Chrysler in Scotland.

The company is part of the Wolverhampton engineering group, Frederick Cooper, and contributes about 40 per cent of the group's £20m turnover. Cooper is probably best known for making horseshoe nails, which it exports all

over the world. Custom Coll is also strong on export, with 25 per cent of

we were doing fairly standard work, such as coating marrow strip for specialised uses. Then we started playing about with bakeware."

That " playing about "--- tire that playing about the company sets aside one and half shifts per month to use its coal coating lines for R & D—his cremmally led to the development of some impressive kitchenware, coated with Du Pont non-stick finishes on the inside and Crown Paints heat-resistant, heightly chloried coefficients heightly coloured coalings on the other.

## Hallmark

Custom Cell has developed the coating process and with Du Pont and Crown the coat-ings themselves—so that the kitchenware can be drawn, stamped and bent from the coated coil without the pre-finished surfaces being damaged or becoming un-

gramme at the company is concerned with coating sine strip. The paint is electri-

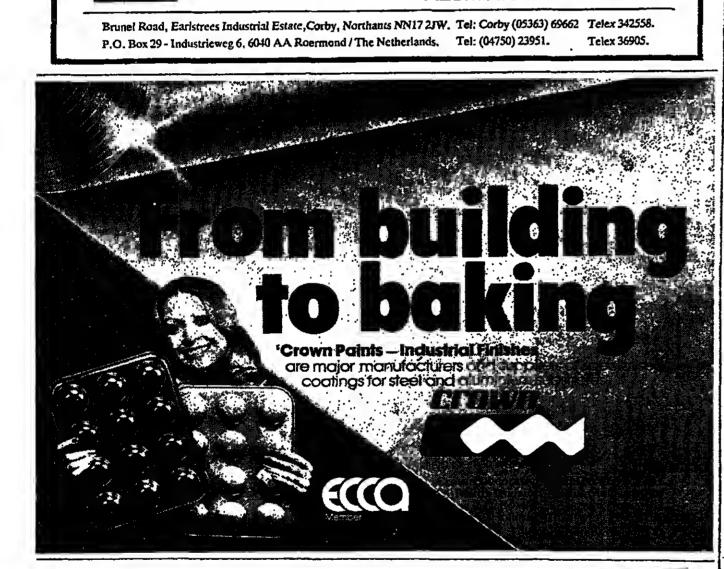
produced for making batteries if Custom Coll succeeds. The development is being done with a major battery manu-

Mr Large says: "There are still problems to overcome but we have been through this mill with every new thing we ever did. It took three or four years to get the bakeware right but it was well wettimble."

A step-by-step approach has also been the hallmark of expansion abroad. The company started selling in France and Germany, secured its posi-tion, and then expanded else-where in Europe before venturing further afield, leaving the U.S. market until last.

The management's only fear is of success forcing too-rapid growth. There are only 65 employees in the highly capital intensive business and the management team is basically Mr Large and his technical and sales directors. He says: "We can take deci-

slous and respond quickly. One of the problems would be ecome tee big."



# SCHRAMM/WEILBURGER'S THROUGH WEILBURGER(UK)

arrington based subsidiary,
Weilburger (UK) Limited is now firmly established as Britain's leading supplier of non-stick and decorative high temperature coatings manufactured by Weilburger

Following the recent Group acquisition of Schramm Lacke, Weilburger (UK) is now able to offer a complete finishing package for coil to cover the exacting requirements of today's fast moving UK Coil Coating Industry. Contact Tim Rand on 0925 813850



Weilburger (UK) Limited 47 Melford Court Hardwick Grange Warrington Cheshire WA1 4RZ Telephone (0925) 813850 Telex 629529

European Enquiries Weitburger Lackfebrik (J. Grebe) GmbH., Postfech 1320, 6290-Weitburg/Lahn, West Germany, Telephone: 06471 2021 Telex: 048421B Schramm Lacke GmbH., Kettelerstrasse 100, Postfach 38, 6050 Offenbach am Mah, West Germany. Telephone: 0611 86030 Telex 4152925

# Alcan and Euramax fight it out

A NEW confidence has emerged among British Alcan's coll foreseen.

Coaters in Birmingham A year

Part of this is due to the succession. ago they were smarting at hav-

Gaier,

ancient coil coating line, which is now making profits.

One of the reasons why Euramax opted to become a coater was an understandable fear that the long-unprofitable Alcan line would be closed down. Euramax needed to safeguard its suppliers of coated aluminium for phers of coated auminium for its caravan business but saw a chance too of picking up the whole British market with a new, efficient line if Alcan dropped out

Marketing director Mr Bob Horton says that the investment decision was based on the worst

exultant is that, having been further.
reorganised and virtually given longe treatment to save their coil treatment. coating line, they have done so. The turnround in contribution between 1983 and 1982 was £250,000. In 1984, the Birmingbam plant is heading for £500,000 better than that—even though its success has prompted though its success has prompted Alcan accountants to demand that it now bears a larger share

of group overheads. This has happened despite rising aluminium prices—the cost applied.

ago they were smarting at having lost their biggest customer, Euramax—which had just opened its own coil coating line in Corby—and not a little worried.

Today It is the Euramax managers who are looking edgy while the Alcan men are exultant. Alcan's man in charge, Mr Peter Gibbs, has just been promoted to a works directorship in Scotland and the company is about to make a substantial investment in its ancient coil coating line, which latter's share is expected to be a worked in the success of Alcan's new coating, burstless due to the success of Alcan's new coating, burstless of this is due to the success of Alcan's new coating, burstless of the stractly, with so chance of the cess of Alcan's new coating, burstless to damnage line has just been worked in the has just been worked on to improve its heat recovery efficiency. No one admits to this not matching expectations burstless would be no point in year and sales manager, Mr Roy

At the same time the spread of end uses is widening. Alcan would help Alcan but says that used to be almost exclusively in the coating itself.

Meanwhile, Euramax's brand new line has just been worked on to improve its heat recovery efficiency. No one admits to this not matching expectations but there would be no point in the same time the spread of end uses is widening. Alcan would help Alcan but says that used to be almost exclusively in the coating itself.

Euramax refuses to give production figures, claiming these would help Alcan but says that the same time the spread of end uses is widening. Alcan would help Alcan but says that the same time the spread of end uses is widening. Alcan would help Alcan but says that the same time the spread of end uses is widening. Alcan would help Alcan but says that the same time the spread of end uses is widening. Alcan would help Alcan but says that the same time the spread of end uses is widening. Alcan would help Alcan but says that the same time the spread of end uses is widening. Alcan would help Alcan but says that the same time the spread

year and sales manager, Mr Roy
Shearing, says that this will
double during 1984.

At the same time the spread
of end uses is widening. Alcan
used to be almost exclusivaly in
buildings and caravans, The
latter's share is expected to be
only 30 per cent of volume this
year—compared with half in
1982—with building's share also
dipping as transport and gutter-

Alcan's line has recently gone into profit and the company is to spend substantial funds modernising it

possible scenario and that Euraing nndge towards 8 per cent
max is on budget.

It has also changed its chief
executive: Mr Roger Walters
became managing director in
August after previously leaves

of corporate traumas that cause nightmares.

The new factory is in coated aluminium and an impressive testament to what the new line callameous and investment out of Alcan baadquarters, with site of Alcan baadquarters, with can produce. At the same time, transport or store steel or aluminium sheet is to do so in coils. The metal comes out of the mill in a long strip that is literally rolled up. Coil coating technology is concerned with painting these coils.

It is done on a continuous, automated production line, with the coils of metal being unrolled at one end, passed through pre-treatment tanks to clean the surface and ensure that the paint will stick, then became managing director in August after previously leaving his last job as bead of Alcan's E140,000 being spent on the line building building products division. Mr Walters says: "We have more than matched our predictions. If our competitors want to think we are not making progress, that suits us fine."

Why Alcan's managers are why Alcan's managers are exultant is that, having been exultant is that, having been and computerised laboratory facilities that will improve cataloguing of coatings so that consistency can be improved exultant is that, having been investment that line same time, even more recent investment has seen a coil slitting system installed and an embosser. These are expected to belp entry into a wide variety of miscellaneous markets.

Euromax has also carried out a very unusual experiment, loguing of coatings so that consistency can be improved exultant is that, having been further.

placed with modern, cold, no-rinse technology that will save energy and cut anti-pollution costs.

This will also create space in tha line and there are hints that this could allow the installation of a new coater developed by Alcan in Canada which dispenses with rollers and enables random two-tone patterns to he

of coils has gone up by 50 per The paint comes out of a cent—and a frustrated, large export order to Nigeria. Nevertheless, the company managed to strip. A series of computer-cuat 5,500 townes in 1983, compared with the 6,000 it had be used to apply a second colour

geted for with the two crises unin random squiggles, so that foreseen.

Part of this is due to the success of Alance of the exactly, with no chance of the

this a long way off the annual 2,500 tonnes it used to buy from Alcan in peak times, though Mr David Brown, the sales director, says that this sort of annual rate is more likely by the end of the year.

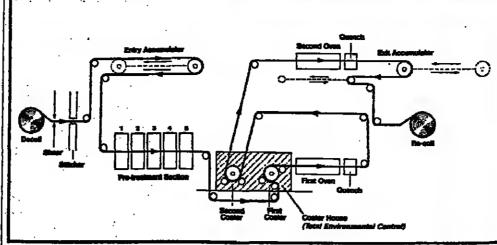
of the year. Euraman's big achievement, bowever, bas been to get its new line going while at the same time building a new factory next door so that it could move its caravan cladding operation from Tring—the sort of corporate traumas that cause nightmares.

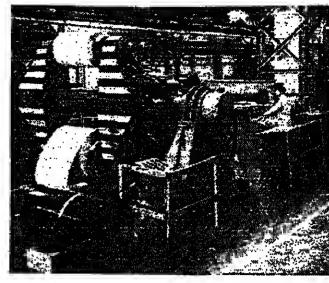
further.

Longer term, the lina's pretreatment system is to be reintriguing long-term possibilicompany will speculate.

How is Euramax really

nothing away, Mr Walters postats out cryptically that the company's parent, the U.S. owned Alumax Aluminium, has owned Alumax Aluminium, has never made a loss in any quartory of the one in front of it as it never made a loss in any quar-ter in its history. He says: "Des-pite price rises we have main-





Above: a diagram of Euramax's Corby line. Right: Alcan's Birmingham line.

The coil coating process

# What it means, how it works

up again.
Why this simple operation is in fact complex is because the ties about which no one at the strip—itself up to five feet wide company will speculate.

—may well be passed along a How is Euramax really doing? Poker-faced, and giving to 300 metres a minute, or 12 nothing away. Mr Walters miles per hour. Stitching runs out,

pite price rises we have main-tained margins and made a positive contribution. We have metal strip may have to be consolidated operations and painted three times—a backing learned more with each month coat or lacquer on the "back" painted three times—a backing that has passed—and we hope or bottom side, and a primer we are getting more clever all plus a topcoat on the "front"

apply backer, apply primer, this film, or a thick coating, bake dry, apply topcoat, bake dry, re-coil.

Older lines with only one drying oven bave to pass coils through an embosser before drying oven bave to pass coils through an embosser before drying oven bave to pass coils through an embosser before drying oven bave been working at well besome of the most modern lines bave facilities for a three coat, three bave facilities for a three coat, there have been crucial. Speeds will pick three bave facilities for a three coat.

three bake process. Most of up with economic recovery and Phenix, which has a credit these are in Japan but a recent those old lines that are not yet 10 per cent market share. The principal coatings

Acrylle: Flows well to give perfect finishing and good flexibility when formed, but

has an outdoor life of only seven years. Price factor L\*

Polyester: Can be tailor-made to any end-use, with

formulations variable to give wide ranges of gloss, weather-ing, flexibility, chemical resistance or deep drawing capability. Outdoor exposure

life is ten years plus. Price factor 1+, depending on for-

Silicone polyester: Polyester modified with silicone resin to increase outdoor life

mulation.

Plastisol: A dispersion of polyvinyl chloride (PVC) with plasticisers, applied at np to ten times the thickness of nor-

mal paints. Dark colours are degradable by bright sun-light so use is restricted south of the Alps. Thickness allows it to withstand care-lessness and abuse on build-

ing sites. British Steel's main

coating for building industry. Price 2.5 to 3.5.

Finerocarbons; usually a

mixture of polyvinylidene finoride (PVDF or PVF2) and

COIL COATING is a simple process requiring complex technology. Its besic premise is that the easiest way to paint a sheet of metal is to lay it flat, thus ensuring an even coating of consistent quality. The process is simply the means of doing just that.

But the most sensible way to make, transport or store steel are also steelmakers. In Europe, British Steel and Germany's Hoescht dominate production and development of the technology. They are in

virtual control of respective home markets, despite aggressive marketing by the Benelux company, Phenix, which bas a creditable

PVDF in formulation, with

Class A paints containing 70 per cent and Class B, 50 per

cent. Price factor 2.5 to 4+.

Non-stick: main ingredient

is polytetrafinorethylene (PTFE) but this has such non-

stick qualities that It has to

be mixed with polyether-sulphone (PES) to coat any-

thing at all, PES can Itself be used as a coating for end-

uses requiring high beat resistance, as in bakeware.

Price factor varies too much

with end use for generalisa

\*Prices vary with formulation

Aluminium relatively, few and far hetween, increasing range of uses for steel as coatings improve and wipe out aluminium's former resistance as a substrate-which brings us to the coatings them-

These bave come a long way since the first coil coating lines were built 40 years ago to coat narrow strip for venetian blinds. What dictates the choice of coating is the end-use for the finished metal.

If it is to be used for making caravans, for example, a high-gloss will be required but if kitchen bakeware is being made, the coating may well be non-stick on one side and thermoplastic resin on the other. If the finished material is to be vigorously formed—requiring, say, bends through 180 degrees, or deep drawing—the paint will bave to be formulated so that it remains intact and does not lose adbesion from the metal when

The properties required of paints compound the high-technology content of the industry. So does drying them, since the ovens will often be driving off polluting hydrocar-bons used as solvents. This has led to elaborate catalytic cracking systems for the gases con-cerned, with heat being recycled

acrylic. Almost Indestructible. Superior in all properties to 15 years. Relatively poor flexibility when formed, and can he degraded hy hacteria. and volume, so can only be indicated relatively to each to all other coatings. Cost depends on proportion of back to the ovens so as to save or topside. The paint therefore All over Europe, Nixdorf helps repair cars that aren't even broken

ngineers can statistically predict when every part in an automobile is likely to fail.

This is true no matter how fine the car is, or how well built its part. Finally, everything goes.

The trick is to catch it before it has a chance to fail on the road, check it out, and replace it if necessary. Preventive maintenance, the engineers call it. The concept originated in the

airline business, because airlines can't have parts failing during flight.

But while an airline may have hundreds of planes in the air at any given time, an automobile manufacturer has millions of cars on the road during the same period. And each

car has thousands of parts. So while preventive maintenance for automobiles is a good idea theoretically, it becomes well-nigh

impossible when you try to put it into practice.

The permutations and combinations can be mind-boggling. But not to a Nixdorf Computer Network.

Which is one of the reasons why most major European automobile companies rely on Nixdorf to keep

their cars running.
They use Nixdorf hardware and software for distributed data processing, and inventory control (so they can lay their hands on a part

wherever it happens to be). Nixdorf computers keep track of which parts are being used up, predict when those parts will be needed, and automatically reorder and ship replacements, to maintain stocks around the world.

The same Nixdorf computers help service departments remind customers when to come in for service, and the computers identify the parts which require careful scrutiny.

The nice thing is that Nixdorf computers are so easy to use, that everyone in the service department soon learns to depend on them.

So the next time your car doesn't break down on a trip, don't thank your lucky stars. Thank Nixdorf.

Nixdorf Computer Ltd. 125-135 Staines Road GB-Hounslow, Middlesex TW3 3JB Nixdorf Computer AG Fürstenallee 7, D-4790 Paderborn Telefon 52 51/50 61 30



Fluorocarbon paints









The suppliers' key to future prosperity

ACCORDING to Mr John Gattley, Pennwalt Plastics' UK director, the company is "big in little things." The approach has worked well enough to see the Philadelphia-based company, which has its own fluorspar mine, to worldwide sales of \$1,000m a year and nearly 20,000 employees.

One of the "little things" is a fluorocarbon resin called Kynar 500, Pennwalt's brand name for polyvinylidene flooride, which in turn is more gen-erally known as PVDF or PVF2. It is practically indestructible and, when mixed with a flowing acrylic paint, it provides eteel sheet with a Rolls-Royce coat-

According to ICI's Dr Bob McGuinness: "It is a ridico-lously priced product bot they've got the lot of us over a barrel."

## Prudent

Pennwalt knows it: it is the world's only volume producer of PVDF for the world's paint-makers. And even though the strength of the dollar has encouraged Atochem in France and SKW in West Germany to start producing a similar type of PVDF in the last year, " me too" products always have an uphili fight against a wellestablished market leaderespecially one prepared to guarantee huildings using Kynar-based paints against cor-

Nevertheless, Pennwalt has felt it prudent to absorb some felt it prudent to absorb some of the impact of the strong dollar, especially since there is an EEC tariff of 14 per cent

tors could be made from pre-

major area for future growth, this seemed to suggest that International was about to

corner a substantial portion of

a new market, so what the com-pany's management is now say-

ing comes as something of a

we can expect to see major

but volumes will not be great."

turers will switch many existing

The argument becomes different when a new time is being set up—as was the case at Hot-point—but this sort of investment is unlikely until the world

lines to pre-finished material.

has recovered more substau-tially from recession.

But International needs to develop in coli coating for soveral reasons, a principal one of which is that it must replace

volume lost in the marine sector

As Michael Pragnett, man

sible for companies in former EFTA countries like Sweden to escape this—so that their Kynar-hased paints could be cheaper when sold into the EEC— British, French, Italian and German paintmakers are underetandably suspicious, though the multinational nature and ties of the only companies which could be involved make such a practice unlikely.

Kynar's indestructibility has kynar's indestructionity has opened three worldwide markets. The first, linings for chemical plant, has been quiet during the recession but the second, electrical insulation, has been boosted by a change in U.S. building regulations for airconditioned buildings (PVC is being superseded because it is dengerous in fires: Kynar-based dangerous in fires; Kynar-based plastics are fire-resistant).

The third market, which accounts for a third of world sales but 70 per cent of sales in Europe, is in coatings. Pennwalt sees the prospects for Kynar expanding mightily as all three markets grow be-tween now and the end of the century. It has already extended its factory in Kentucky to up production by one-third and it is building a new plant in New

Mr Gattley says: "We don't disclose how much we make. Hopefully, the new capacity will see us into the 1990s."

Jersey so as to double this ex-panded capacity by May next

Since the claddings market is

anxious not to merely be a "me too" competitor. "We bave to bring something new with us,"

The company is therefore going to attack plastisol, the thick PVC coating with which

British Steel covers more strip

than with anything else. With ICI working on a "nephew of plastisol" the workhorse of the

claddings market now faces a pincer assault, but is it even vulnerable?

With the use of coil coated

claddings increasing anyway and economic upturn strengthening, International thinks that British Steel, its main target for plastisol-substitution, will be

forced by sheer economics to speed up its lines within the next few years.

Using tough, fluorocarbon coatings—which are thin and therefore fast to apply—may not be the answer since these are at the top of the price range. So International has developed what it thinks could

developed what it thinks could become a new workhorse; it is an eighth of the thickness of plastisol yet, according to Mr Kent-Coward, matches it for

robustness while being much

It also has phenomenal stretchability." This is critical

Mr Kent-Coward says: "We

Normally, there would have

will survive in the coll coating

Substitution

Mr Pragnell says.

finished steel. continuing to expand, there is with domestic appliances elbow noom for anyone trying earmarked by the industry as a to break in but International is

**International Paints** 

side of coil coating.

The company operates a licensing system and is very

pean, if not world, paint tech-nology.

The significance of this is choosy to whom it will sell the that long term prespects for technology. Mr Gattley says:
"Our policy is only to grant Kynar licences to people with technological expertise, We of finorocarbon coatings on

## The major benefit is that buildings are likely to be sound 40 years after construction

Becker has four of them, ICI and International two each, Hoechst—through Hetberts in Germany and Berger in Britain

At the same time, however, International does have to put

down markers to demonstrate its presence in the marketplace.

If its leap into domestic appliances is not going to yield hoped-for safes volumes, it has to show it is in earnest in the buildings sector, which taking the new coating off the secret list does.

Mr Pragnell says that growth

in paint sales to coil coaters have grown by an annual 25 per

cent for two years. But pressed, he admits that the company is selling about half as much as ICI, which last year owned up

to a miniscule £2m worth in

Technological leapfrogging makes a great deal of sense, then, in attacking established

matterts. When the market is plastised, risk and corporate

Britain has the largest which need to shift large to dominate. The edge to their fight for share in the new market is intensified by other market is intensified by other needs to shift large market is intensified by other needs to shift large which need to shift large which need to shift large to which need to shift large to which need to shift large which need to shift large to which need to shift large which need to shift large to which need to shift large which need to shift large which need to shift large to which need to shift large which need to shift large to which Add the names of some of the other licensees, such as Corona and Ripolin-Duco in France, Sigma in Belgium, and Max the things it paints now (such Meyer, Italyer Pittsburg and as steel drums) will eventually

always require evidence that building claddings. This is the always require evidence that comings they develop will last."
Inevitably, therefore, the 21 that most in the industry see as tikellest for sustained growth. Companies without a Kynar Germany, Poland, Fyrland, Sweden, Belgium and Italy among a few leading paint-makers and their substidiaries. Specialised markets, such as Sector has four of them ICI bolloware and hateware, or that most in the incustry see as likeliest for sustained growth. Companies without a Kynar licence are going to be left in the cold, probably concentrating on small but profitable specialised markets, such as holloware and bakeware, or carving ever-deeper niches for themselves in "old technology," such as plastical such as plastisol ...

The big companies, all of meanwhile, trying to ellowits way into Britain now is another Kynar licensee. Sigma Costings, the paintmaking subsidiary of the Belgian-based petrochemicals group, Petrofina Sigma is by far the largest supplier (it claims a 70-plus per cent share) of all types of paint to the Belgian steelmaker, Phenix, which in turn has a 10 per cent share of European

coated steel.
Sigma also sells to coil coaters in France, Germany, Italy, Switzerland and Scandinavia but John Commingham, senior manager in charge, admits that in Britain "We've

per cent share of European

in, though as the main supplier of plastisol to Cladeolour, which is starting up its own small coil

which is what does the damage certainly hopes so.

**Innovative Coatings for Coi** 

against Kynar as an import enough financial resources to Salchi in Italy, and you have an be made from pre-finished coil, so most coatings.

Since it is theoretically post to survive in the high volume companies matter most in Euro already a have in the race in lengths have no effect on the op top of that there is already a hare in the race in Sweden's Becker, which though not in the same general international paintmaking league as, say, Hoechst, ICH or Sigma, recognised the future algorificance of coll ahead of most others. lengths have no effect on the resin at all and the originest of the paint can get on with its job of protecting the substrate without anyone worrying about whether the polymer system is going to break up.

The energy is with a pointed piece of glass: the glass is invisible to light and is unsideded by it, but the point will stop the light getting through. But paint a sheet of ice and the whole system will fall when the temperature such hat energy to others.

Becker's coil costing sales are about 20 per cent of its turn-over in industrial paints. It claims a 20 per cent share of the market in Europe. Significantly, when it expanded into European manufacture and marketing by acquiring Constay Coatings in Britain, Birthen in France, and Wulfing in Germany, the fact that they had known to be crush a factally good enough to win one, was critical.

The result is that Becker now steel sheet the damaged penel has the widest geographical can be replaced with approach of Kynar licences and exactly matching one. the largest minuter.

The result is that Becker now steel sheet the damaged penel has the widest geographical can be replaced with an approach to the largest minuter.

the largest mimber.

The picture then, among the Kynar licensees, is of most of them servicing and doing best in home markets, but with the large group racing sheed on a pan-European basis, both pursued, from some way behind by the ICI group, International a subsidiary on the licensees.

The first production, as European market develops. To make sure it does so, the company has decided not to rely on cold castors, most of whom are people it sells to, the paint-makers.

The first production, as European market develops. To make sure it does so, the company has decided not to rely on cold castors, most of whom are people it sells to, the paint-makers.

properties of fluorocarbon paints directly to architects, designers and people who take decisions to invest in buildings, such as the managers of pension funds.

## Reliability

Mr Gattley says. People are looking for buildings that will last. They want reliability and a high quality of finish.

There are now some spectacular examples around the world of buildings made of steel pre-Enished on coil coating lines in Kynar-based paints. The days of coil coated steel being a senior manager in charge, cheap way of putting up sheds admits that in Britain "We've are long gone. Now, "presibeen observers for most of the gious" is often the word used last five years."

The drive is on now to break ings for which morocarbon in, though as the main supplier coatings are being specified.

The major benefit is that the building is likely to be sound 40 years after construction, which could be telling to an is starting up its own small coil building is likely to be sound coating operation in South Wales. Sigma may not have endeared itself to a stung British steel.

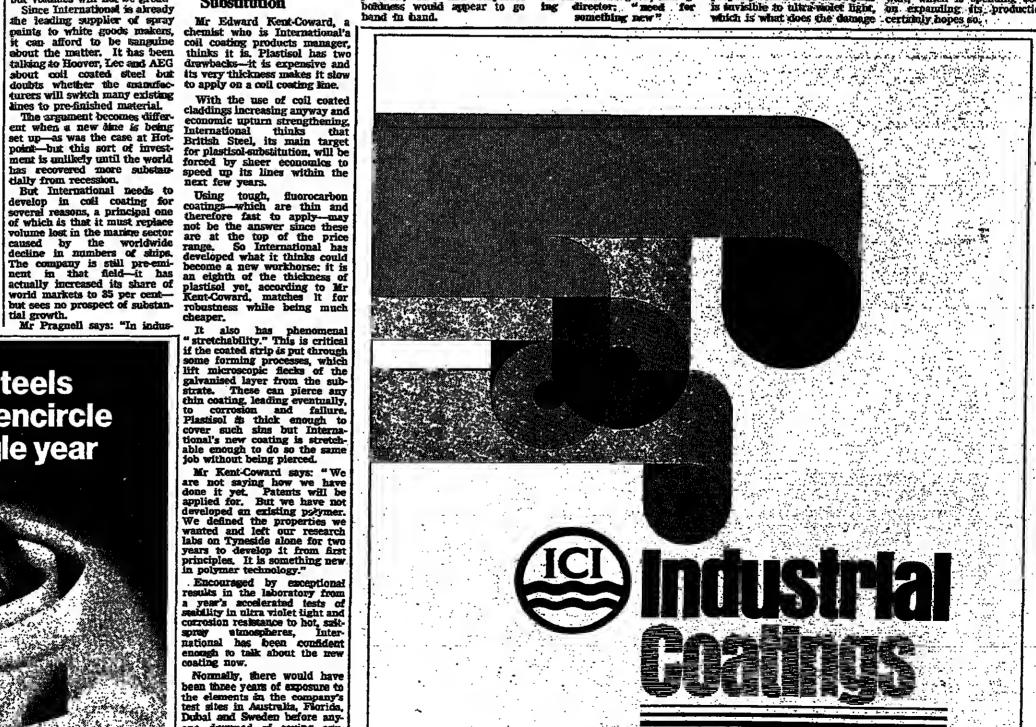
The fundamental assumption have a saleable or reletable behind this massive commitment asset at the end of that time, of resources by so many international companies is that theoretically and companies is that the steel will match the steel will match the just the few functional the few functional the few functions for durability and quality—and the few functions failures have involved failures there accounted revolution in

This in itself relies on another assumption — that the building.——then a colourful revolution in industry is going to increase building design could be about in take place.

Add to this new paints that can make coll-coated steel look the much more expensive another world. Their critical property seems to be that Kyner is savisible to ultra-spote light. On expanding its broadcrition.

Wraps come off son-of-plastisol

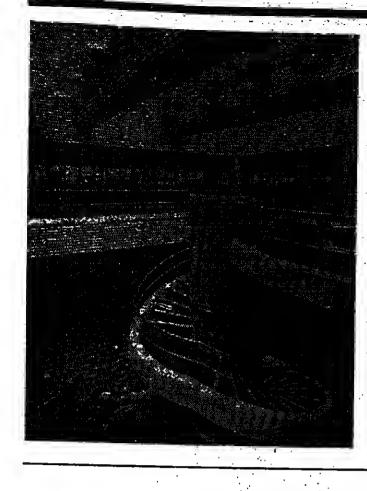
Mr Michael Pragnell, manag-



Imperial Chemical Industries PLC, Paints Division/Industrial Business Area, Wexham Road, Slough, Berkshire St.2:5DS, England, Telephone: 0753 31151 Telex: 847683

Hermann Wiederhold G.m.b.H./Postfach 940, 4010 Hilden/Rhid, West Germany. Telephone: 01049 2103 771 Telex: 85-81511

# COIL COATINGS V





Coil-coated materials have traditionally been used mainly for exterior cladding and roofing but building interiors are now an important growth area. These photographs show coil-coated ceiling panels and an imaginatively-designed, coil-coated hallway

## Crown Paints

# 'Old hat' product is moneyspinner

coal coating product is being constantly knocked as old hat, Crown Paints is remarkably calm about its prospects. The product is plastisol, the thick PVC coacing British Steel puts on most of its chaddings for the building

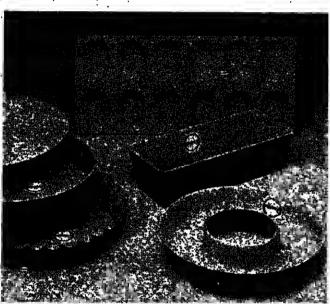
BSC's formulation is its own and three paintmakers-Crown, Berger and Norsk Hydro-make it to specification, an arrangement pooh-poohed by competitors such as Becker and ICI as insufficiently challenging to a real high-tech paintmaker's

All paintmakers in the field can supply plastisols, of course, but BSC has been content to stick to its own well-tried formation. Since BSC plastisol probably accounts for at least £6m-worth of sales each year it must be worthwhile to have a share of

Indeed, this figure is much more than what several large international paint companies now trying to cition their way into the market are selling to coil coaters throughout Europe. Even if ICP's assessment of the situation is cor-rect—which is that plastisol will maintain volume but lose share in expanding buildings markets—Crown, Berger and a ot of money out of it.

Plastisol's critics point to its slowness of application, its tendency (in some darker colours) to chalk in strong sunlight, and its expense.

But the other side of the coin is that British Steel has no plans to drop the coating which has been the backbone of its success in coated coil. BSC's Peter Burling points to



Non-stick kitchenware produced by Custom Coil Conters has Dupont non-stick coating on the Inside and Crown's heat resistant paint on the outside.

northern Europe where plasti-sol has performed well. More than that, many have been up now for the best part of 20

It is among these that Crown expects to find prove new markets—in the maintenance field. Crown's David Parkinson says: "We are the only BSC-approved supplier of overpainting systems for plastisol." The system consists of painting with a special primer to get adhesion and then applying a sileon alkyd topcoat.

"We are putting a lot of time and effort into develop-ing maintenance procedures,"

this as a major growth area. If you say that the length of life of a steel building is about 40 years, coil coated plastisol will last for at least 15 before its first manitenance But you can't just paint it with anything."

Crown, bowever, does not have all its eggs in the plastisol basket. It is a major supplier to the independent coil coater, H. H. Robertson, which uses British Steel in

building applications but coats on a bespoke basis for the particular job in hand. Crown also supplies to Coated Strip, which coats fiddly hits of narrow width for things like edgings, and-

Custom Coil Coaters, where it also sees prospects of

growth.
This last area is the pots This last area is the pots and paus business—bakeware and holloware for the kitchen. Crown claims to have been first to put a wide range of hright colours into pots and paus in 1975.

In those days Crown was also in the non-effect business but has now ceded the field to Du Pout while evaluations.

to Du Poot while grabbing the other side — quite literally — of the pois and pans market.

Custom Coil now puts Du Costom Coil now puts Dn Pont's Teston on Silversione non-stick on one side of steel coil and Crown's Nuon coating on the other. The presintshed metal is then formed into products such as jelly moulds, tart trays, standishes, or bakeware for the Sunday joint.

Crown's brightly coloured coatings are on the outside

costings are on the outside of the finished product. Some of the finished product. Some idea of their properties can be gauged from their ability to withstand three hours' immersion in botting vegetable oil, two hours in a hot oven, four cycles of heating to 150 degrees centrigrade followed by shock cooling, and then survive being put through 180 degree bend better. through 180 degree bend tests without losing adhesion. Mr Parkinson says: "We

e also moving into the appliance sector, which falls etween bakeware and large appliances such as refriger-ators. There will be a big battle with the powder coaters and all the manufacturers are trying both technologies, using powder for kettles and coil coating for toasters. The demand for colour in the kitchen is definitely increasing. We think it could be a very good market to be in."

Years from now, when he's become an international soccer star, exterior metal finishes based on KYNAR 500 will still look new. Years of weathering and pollutants won't take the glow off this tough coating.

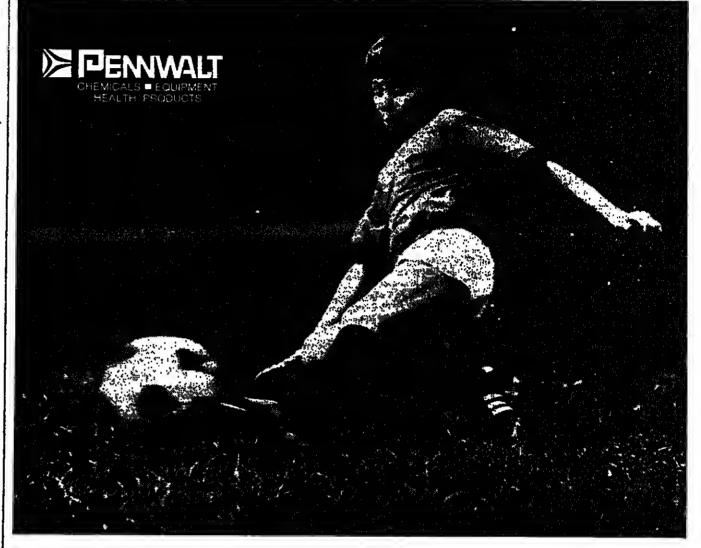
KYNAR 500 based coatings resist pollution, chalking, ultra violet deterioration and general weathering. KYNAR 500 finishes do not crack, craze or fade. So colour matched extensions to your building are no problem. Both accelerated and actual life tests prove it. There's no coating like it in the world.

Your building represents a significant investment. If your plans call for metal cladding using factory-applied paint finishes then enhance your to compete for the World Cup, KYNAR 500°-based coatings investment and specify only KYNAR 500.

For more information on KYNAR 500 applications write to Pennwalt Plastics

Europe, Cherwell House, St.Clements, Oxford OX4 IBD, England or call 0865-726961; Telex: 837938 PP EUR G.

KYNAR 500 is Pennwalt's registered trademark for its vinylidene (knoride resin (PVF²)



When he is old enough

will still be young.



# Intensive attack on UK market

WITH SALES in Continental at the surface, which enables it Europe up 160 per cent last to withstand more vigorous year, ICI is now intensifying forming processes.

There is little of it yet in Europe, where the main holders of Bethlehem Steel's licence to produce it are British Steel and the Baldian steelman.

with a 45-55 mixture or anomal substrates and technical pack-up pased on our existing experience."

It already has the corresponding our existing experience."

Meanwhile, work is conmade by conventional methods in the age of Galvalume should thought for the coaters confidence made by conventional methods so has a vested interest in seeing drums continue to be made spectators. and greater mechanical strength

where sales to coll coaters rose by only 9 per cent in 1983.

Significantly, the man in charge, Dr Boh McGuiness, has moved back to Britain from West Germany, where his job involved setting up ICI's coil coating operations with its subsidiary Wiederhold. It is part of an increasingly high profile ICI is adopting in the field.

Having acquired the Birmingham - based Holden Surface Coatings 18 months ago, with its substantial organisation, manufacturing base and markets in France, Dr McGuiness claims that the ICI-Wiederhold-Holden group is now the higgest in European in the main fooders of Bethlehem Steel Main nonders of Bethlehem Steel's licence to produce it are British Steel and the Belgian steelmaker, Phenix. But in the U.S. most Galvalume is used unpainted. Only in Australia, where it comprises much of John Lysaght's output of strip, does it go through coil coating lines.

Lysaght's main supplier of paint for this is ICI's Australian company, Dulux. Dr McGuiness expects European competition for the Galvalume is used unpainted. Only in Australia, where it comprises much of John Lysaght's output of strip, does it go through coil coating lines.

Lysaght's main supplier of paint for this is ICI's Australian company, Dulux. Dr McGuiness expects European competition to give it the edge with European coaters. "Only we have real experience," he says.

At the same the main nonders of the Belgian steelmaker, Phenix. But in the U.S. most Galvalume is used unpainted. Only in Australia, where it comprises much of John Lysaght's output of strip, does it go through coil coating lines.

Lysaght's main supplier of paint for this is ICI's Australian company, Dulux. Dr McGuiness expects European competition to give it the edge with European coaters. "Only we have real experience," he says.

Dr McGuiness claims that the ICI-Wiederhold-Holden group is now the higgest in European coil coating after the Swedish market leader Becker.

He says that Holden's operations are complementary to ICI's—Holden is big in nonsick coatings, for example, and a fierce competitor of the

stick coatings, for example, and a fierce competitor of the German company, Weilburper, which has itself opened a UK base in Warrington. The new grouping means that ICI will be able to fight more effectively and on more fronts on a nan-European basis.

But attrition to not the sole strategy, for ICI believes it has an ace un its sleeve that will see it take a great lean forward in 1986. That is when fertish Steel will start making advalume on its new line at Shotton. ICI if it plays its card right, hould be able to grab the major share of paint suodies.

Galvalume is steel strip coated with a 45-55 mixture of aluminating the corrosion resistance.

Meanwhile. Work is con-



Dr Bob McGuiness: high hopes for Galvalume market

At the same time, the German steelmaker Hoesch, which has no Galvalume licence, is working on another surface, a 5-95 mixture of aluminium and zinc, which is just outside the Bethlehem Steel patent and is called Gaffan. British Steel is also involved.

This raises the possibility that by the end of the 1980s there will be two classes of steel substrate dominating the market in Europe—galvalume for expensions. In the same market in the serious and is composed things that are now coming to fruition." Possibly the most important of these from a tong-term high sales volume point of view is called Compolex.

This raises the possibility that by the end of the 1980s there will be two classes of steel substrate dominating the market in light tends to confine it to solve more already running successfully on Australian at minimum and is now undergoing production trials on Galvalume. Results are expected

which coil coating offers.

Dr McGuiness is also much more optimistic than some com-petitors about coil coaters sell-ing much more pre-finished material for office furniture and

domestic appliances.

He says: "Hoover have been toing and froing. Kassel and AEG are going. About 30,000 tomes of steel were used in the European domestic appliance market last year. Full credit to International Paint for their work with Hotpoint. They did the whole industry a favour but the rest of us have now caught

But it is not only in coating Galvalume that ICI expects to benefit from its Australian experience. According to Dr McGuiness "we have teams working on several things that

# What performance can you expect from an exterior

International Paint have a durability in environmental unique experience in exterior coil coatings.

Supply and exposure experience in Australasia, Florida USA, Northern and Southern Europe has given us a unique opportunity to compare coating beheviour under a wide variety of climatic conditions. . . but against standardised criteria.

Water based acrylics, silicone modified polyesters and associated coatings are all engineered to give maximum



extremes. With our experi-

ence we cen help coil

coaters and their custom-

ers predict life expectancy

using any of our systems

For detailed information

on International Paint's

range of building cladding

and domestic appliance

systems contact:

in particular conditions.

# International Paint **Coil Coatings**

Australia-Italy-Spain-Sweden-UK

## YOUR PARTNER IN THE METALS INDUSTRY **EMG**

ELECTRO-MECHANIK G.m.b.H. Wendenerhütte, D-5963 Wenden, Biggetal 2, West Germany. Phone (02762) 6121 Telex 876416

## STRIP GUIDES SERVOHYDRAULICS & CONTROL SYSTEMS

UK Licensees for Strip Guides for the Metals Industry SIGMAX ENGINEERING CO LTD
Aspenwood House, Ipsley Street, Redditch, B98 7AR,
Worcestershire, England.
Phone (0527) 62523 Telex 335540
Sales Worldwide by A.E.G.-Telefunken

The European Coil Coating Association

# Drive to tap new markets

Association in the last few from British Steel, who finishes morths. The ECCA has reorganised its Brussels office, sorted out its information and promotional services, and has been putting much more effort into promoting the industry's products rather than itself.

These are significant changes

products rather than itself.

These are significant changes in outlook and approach which could boost natural growth of the industry further. That natural growth is, of course, the major reason why the ECCA has taken so long to get itself fully oriented in a marketing direction.

Founded in 1966, the organisation set out to research, pro-mote and study all aspects of coil coating. Most of its mem-bers are not coil coates, but suppliers of paint, chemicals, plant and equipment. Only 51 are coil costers, all of them customers or potential customers of the other members.

But with the steel industry in particular notoriously pro-duction-oriented throughout Europe, the ECCA has appeared somewhat introverted for most of its life. The fact that mar-kets were growing anyway hardly encouraged people to ask if they were growing as fast as they might.

So ECCA's conferences bave sometimes appeared to be well-run technical gatherings where hard-headed production men met to hear weighty papers on important, but sometimes On top of that is the jargon

of the industry liself. Even the name "coil coating" brings puzzled looks from non-technical managers in manufacturing or construction or the financial secconstruction or the financial sec-tor—the very decision-makers to whom the concept, with its potential for saving or safe-guarding large sums of money, ought to appeal.

The analogy is with trying to sell Mars bars through long dis-

courses on how to make choco-late, nougat and toffee and wbat the problems are in printing the name on the wrapper.
The ECCA's change in ont-

look has come about gradually over the last two or three years, followed by a spurt forward as a result of reorganising things in Brussels more recently.

Mr Makins says: "Growth has been phenomenal over the last decade and has continued despite recession. But the industry cannot afford to relax. There is a need to develop existing markets and identify and exploit new ones."

Mr Otto is concerned about complacency among coaters who have been doing well without beving to try very hard in the marketplace. He says: "They assume that anyone who makes products from aluminium or steel is already fully alert to the advantages of coil coating.

# Vigorous promotion

"This is a dangerous assumption, particularly in key indus-trial sectors where alternative products and processes are being marketed aggressively.

"With European industry coming out of recession I expect the ECCA and its members to consolidate on gains made already and be ready to capitalise on new market opportunities."

Catching any upswing in the European economy is seen as stial to coil coating's further growth. Promotion of existing and new end-uses is in turn seen as critical in achieving that, with drives on in the white goods market, and in the use of expensively coated, technically advanced steal substrates for advanced steel substrates for a much wider range of buildings

Some individual coaters have been doing such promotion quite vigorously already, of course, and some suppliers have also worked bard to get the "paint first, fabricate later" message across to senior managers responsible for investment decisions. But the indus-try as a whole in Europe has failed in this area, a stark contrast to the ECCA's counterpart in the U.S.

To change this the associa-tion's marketing committee has been beefed up under the chair-

Some of the change has undoubtedly been due to Mr British Steel's sales manager for Norman Makins, recently retired from British Steel, who finishes time in ECCA history this continue in

year been working full-time as
the ECCA's marketing consultant, says: "The immediate
problem areas were easy to
identify, such as linguistic barriers, heterogeneous product
ranges, entrenched "marketing" philosophies, and reluctance to disclose some information. Solutions have been less
obvious."

He says that there has been e developing realisation that collective action is not only possible but capable of being effective. "Above all, there is a new willingness to bridge the gap between coll coater and the industrial end-user by exthe industrial end-user by ex-amining potential problem areas and possible reasons for product resistance," he adds.

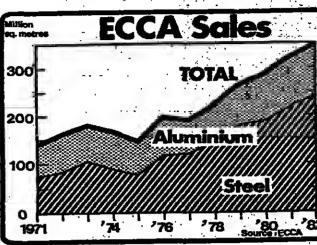
Changes at the ECCA's headquarters in the Rue Montoyer bave seen Ms Maria Dam ap-pointed to its secretaryship. She has set about improving feedback both from the marketplace and from members to the Brussels secretariat and expects this to make a great deal of difference to the ECCA's management of information dated monthly. about the industry.

Much of this is now in a large loose-leaf binder issued to mem-bers and divided into 15 sections covering such subjects as market trends, new required reading, technical develop-ments and statistics. It is up-





Ms Meria Dam. head: improving feedbarings the marketplace



At the same time an amhidustry does and can do is being prepared, the ECCA is going into more trade fairs, and an audio-visual presentation is on

and collective national and inthe way.

Another sign that the industry paigns. ternational advertising cam-

is getting its marketing act together is that members are putting up money for joint promotion, with national member grotips exploring the possibilities of direct mail marketing ing bigger than ever.

Coil Coating Association in the U.S. is clearly in everyone's mind. There, the NCCA's main role in the 1970s was to lobby hard in Washington to fight the prospects of the industry being hampered unreasonably by antipolintion legislation. But the arrival of the Reagan

The example of the National

administration and recession changed priorities overnight and the NCCA switched most of its efforts into finding new markets for the industry as a whole This led to large gains in the white goods sector and in the manufacture of other domestic appliances, with most new appliance production lines in 1983 designed for pre-finished raw material.

A new market was opened in houses and farm buildings, so that as recovery has started to revive the traditional construc tion market, the 'total' market for coated coll looks like becom-

... The ECCA hopes that Europe properly persuaded for the first time, will now follow suit.

The international scene

# Western eyes turn to Japan

THE "GOOD OLD. DAYS" appear to be dawning again in the American coil coating industry. In the depths of re-cession these were remembered as the period np to 1979, when growth averaged an annual 16 per cent for more than 10 years.

Then, two years of slowing down were followed, in 1982, by bowever, saw the industry bouncing back, putting on 12 per cent in the first half-year alone with spectacular gains in new markets.

A hot summer helped, sending up demand for air con-ditioners. This benefited coil had been sold on the "finish first, fabricate later" message, and used coated steel for casings and other components. This led to a 75 per cent rise in coated steel consumption for

these products.

The coil coating message had been pushed hard during recession as a means of cutting down manufacturing costs through The steelmakers of Britain, particularly suitable for decoranot having to run paint shops.

This led to refrigerator makers each hold monopolies in their bread bins, and deep fryers.

wrappers and inner liners.
At the same time, makers of these and other domestic appliances designed any new lines to use finished raw material, with microwave ovens in particular emerging as a big and growing market. Overall, coated steel deliveries to the domestic appliance sector grew by 37 per cent to 54,500 tonnes in the half-year.

## Weather windfall

Huge though this figure is, however, it must be seen against the large tounages consumed by the U.S. building and car industries.

In fact, domestic appliances accounted for only 4 per cent of sales of coated coil—an exactly similar percentage to

cent of sales of coated coil—an exactly similar percentage to Europe, and possibly confirming the views of some European paintmakers that this market will never be the volume bonanza which some steelmakers have predicted.

In the U.S., the construction industry consumed 361,000 tonnes of coated steel and 108,000 of aluminium, the former growing by nearly 19

former growing by nearly 19 per cent year on year but the latter by less than 3 per cent.

weather provided The weather provided enother windfall, however, with farmers short of storage space for bumper grain crops. The coll coaters leapt in to promote quickly-erected coated steel barns that could also be used as multi-purpose sheds afterwards. The result was a 35 per cent growth in sales for farm cent growth in sales for farm

Meanwhile, in Europe the growth of coil coating slowed to 7.4 per cent in 1982 as recession bit. But here to at has bounced back in 1983. Roof and wall claddings showing nearly 30 per cent growth in the early part of the year, and other exterior uses went up by nearly 20 per cent. But interior uses, such as floors and cellings, rose by only 3.5 per cent. In Europe, national producers continued to dominate home

markets, with the real fight for market share taking place among paintmakers. Theoretically, there can be quota-free competition on finished goods



The German steelmaker, Hoesch, has adapted its Pladul heat transfer printing system (above) so that continuous patterns can be produced on coil coating lines.

in particular switching to prein particular switching to preown countries and though a
making finished steel for outer small country like Belgium will freezers with traditional stack all of them, the impact Bavarian decorative patterns.

At the same time, makers of is relatively minor, especially though these may not be to these and other domestic in a growing total market.

British taste, Weilburger's UK

Nevertheless, Belginm's manager, Mr Tim Rami, newlyPhenix has gone ahead with its
third coil coating line, a mooran new designs to appeal to the
one capable of coating 200,000 British market are on the way,
tonnes a year on its own, which
is almost as much as British

The new process also means
that "steel wallpaper" can be
steel wallpaper "can be
that "steel wallpaper" frishes Steel will produce on five lines produced, with finishes in 1984. indistinguishable from, say, real

Steel will produce on five lines in 1984.

With Phenix's growth rate running at about 25 per cent a year—compared with a European everage of 15 per cent and projections of 8-10 per cent—about to open up in a very big other coaters may be put ou their mettle. The new line is expected to concentrate on building industry products. Phenix already claims a 10 per cent share of the total European.

cent share of the total European market.

market.

Meanwhile, Sweden is second only to the U.S. in per capita consumption of precoated sheet, with annual output recently estimated at 15 per cent of the European total. Since its own bone market for building sladdings is now saturated. claddings is now saturated, however, the search for new markets is particularly

## Decoration

In Germany there is a strong movement towards decoration in coatings, with Hoesch Sieger-landwerke and the paintmaker Weilburger developing tech-niques for continuous printing of decorative motifs onto pre-coated sheet.

This started life as Hoesch's Pladur system for heat transfer printing on to individual sheets, a costly batch process.

The new process puts the decoration onto the coil, the

system comprising a primer, topcoat and the transfer printing of the design from pre-printed paper. What is ingenious about it is that the topcoat is completely clear, so that the pigments forming the pattern are diffused at high temperatures through the paint to end up under the topcoat. to end up under the topcost. . This makes it impossible for the designs to be removed or damaged when the coll is unrolled for shearing, stamping, drawing, seaming or roll-forming. The cured coating has high thermal resistance (up to 150; degrees C) so the process is



weather, typhoons wide ex-tremes of temperature and Dr Bob McGuiness of ICI said to suggest that they would be coming into the European market next week. But we all came

f 2

4.

Ř.

Target.

away with a healthy respect for their way of working." Apparently, the industry in Europe, proud though it is of being highly capital intensive, has much to learn from Japan,

where every line seen was run by far fewer people than would be required in Europe.

With sit the developed countries pushing hard to make increasingly more appliances and consumer durables out of pre-finished steel, the implications are that productivity on the coil coating line must surely have some eventual influence on the price of the finished goods in the High Street.

So despite the fact that most high volume coil coaters will probably continue to enjoy monopolies in their national home markets for building products, manning the technology efficiently is bound to affect international competitiveness in other key areas.



# INTRODUCING Britain's newest wide strip coating line. From the start you get a great finish

# From the start

COLORCOIL coat strip up to 1524 mm wide. COLORCOIL offer Plastisol, PVF2, Acrylic, Polyester and reverse side coating, developed to meet the requirements. of the construction and fabrication industries throughout the World.

COLORCOIL have the technical backing of major paint manufacturers, Sigma Coatings, ICI & Berger and all coatings are guaranteed.

COLORCOIL coat hot dipped galvanised steel, aluzinc, aluminium and zinc coated steel.

**COLORCOIL** have comprehensive production facilities which include a sophisticated pre-treatment process and quality control.

# And to finish

COLORCOL is able to handle any volume quickly and efficiently.

Why not contact our sales department for further information: Newport, Gwent (0633) 52191

Whiteheads Estate, Docks Way, Newport, Gwent. Newport (0633) 52191 Telex 497845